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North Carolina

INSECTICIDE REPORT

for 1958



THE BULLETIN

of the

North Carolina Department of Agriculture

L. Y. BALLENTINE, *Commissioner*

Number 156

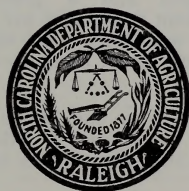
June, 1959

North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1958



THE BULLETIN

of the

North Carolina Department of Agriculture Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*
JOHN L. REITZEL, *Assistant Commissioner*
E. W. CONSTABLE, *State Chemist*

Number 156

June, 1959

OUR COVER PHOTO

The cover picture shows the life cycle of the hornworm. These pests are well known throughout North Carolina. They may attack tobacco, tomato, pepper, potato and other related crops and plants. Among gardeners some are known as tomato hornworms.

Adult hawk moths are generally large grayish moths with white and dark mottlings on their front wings. Hind wings are lighter and have two zig zag lines across them. There are five yellowish-orange spots along each side of the body. These moths have a wing expanse of four to five inches and fly mainly about dusk. They are also sometimes called Sphinx moths.

Each female lays her eggs singly on plants. Eggs are spherical-shaped and a greenish-white color. Larvae hatching from these eggs are green with eight "L" shaped white markings along each side of their bodies. These worms reach three to four inches when full grown.

Winter is passed in the soil in the pupal stage in a mahogany brown case with a pitcher-like handle. There are usually two generations of the hornworms per year.

The white things you see on the hornworm in the cover photo are larvae which developed from eggs laid just beneath the surface of the hornworm's outer flesh by parasitic wasps. Most larvae of the tobacco hornworms can't go very long after being used by a female parasitic wasp, but there are not enough parasitic wasps at present to take care of a very large number of hornworms.

During any season when hornworms become numerous, they can cause much damage to tobacco and some vegetable crops.

The economic poisons law becomes increasingly significant to farmers each year as investments in their operations increase. The most important function of the law is to protect users of pesticides from the few who sell worthless, unsafe or misrepresented products. The law is also essential to the industry. The industry as a whole is protected from unfair competition, unethical merchandising methods and other practices which could retard scientific progress in this important field.

The photo was made by John Mattox of N. C. State College in the laboratory of Dr. David L. Wray, Entomologist, North Carolina Department of Agriculture.

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Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons law (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S., Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department, for the calendar year 1958. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1958.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 7 and 8. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to man-

ufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Henry W. Barnes, Jr., Mrs. Margaret Carter, Harold Jackson, Mrs. Muriel Weathers, Chemists; Miss Mary Melvin, Secretary; George A. Brown, Jr., J. W. Davis, Lindsey Ennis, H. C. McPhail, James R. Stevens, Inspectors; William Morgan, Donald Smith, Laboratory Helpers.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of the public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information
Required to
Appear on
Package
Labels

Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General
Requirements

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

Registration

Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.

Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.

Inspection
Tax

An annual inspection tax of \$10.00 for each brand and each grade is required.

Method of
Paying

Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.

Refusal or
Cancellation of
Registration

Registration is subject to refusal or cancellation for cause and upon hearing.

Stop-Sale
Orders

Goods not measuring up to requirements are subject to Stop-Sale Orders.

Short Weight

Short weight, in addition to above, is subject to penalty.

Exempt From Penalties of Law Are:

Exemptions

1. Carriers engaged in legal transporting.
2. Public official while performing official duties.
3. Manufacturers and shippers of products properly identified for experimental use only.
4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Economic Poisons Registrants, 1958

- ABCO, INC.
1603 Fifth Avenue
McKeesport, Pennsylvania
- ACELINE PRODUCTS CORPORATION
P. O. Box 236
Rochester 1, New York
- ACME FERTILIZER COMPANY
P. O. Box 330
Wilmington, North Carolina
- ACME QUALITY PAINTS, INC.
8250 St. Aubin Ave.
Detroit 11, Michigan
- AERO-SANITATION COMPANY
325 W. Pacific Avenue
St. Louis 19, Missouri
- AGRICULTURAL SPECIALTIES
10219 Denton Drive
Dallas 20, Texas
- AIRKEM, INC.
241 East 44th Street
New York, New York
- AIROSOL COMPANY, INC.
525 N. 11th Street
Neodesha, Kansas
- ALCATRAZ COMPANY, INC., THE
1900 Ellen Road
P. O. Box 5146
Richmond 20, Virginia
- ALCO CHEMICAL COMPANY
19027 Pioneer Blvd.
Artesia, California
- ALFORD HOME PRODUCTS
P. O. Box 595
Middlesex, North Carolina
- ALLEN-CROWL COMPANY
1559 Allentown Road
P. O. Box 627
Lima, Ohio
- ALLIED CHEMICAL & DYE CORP.
Barrett Division
40 Rector Street
New York 6, New York
- ALLIED CHEMICAL & DYE CORP.
General Chemical Division
40 Rector Street
New York 6, New York
- ALLIED DRUG PRODUCTS COMPANY
16th and Pierce Streets
Chattanooga 1, Tennessee
- AMERICAN AGRICULTURAL
CHEMICAL CO., THE
100 Church Street
New York 7, New York
- AMERICAN CHEMICAL CO., INC.
726 First Street, S.E.
Roanoke, Virginia
- AMERICAN CHEMICAL PAINT CO.
Ambler, Pennsylvania
- AMERICAN CYANAMID COMPANY
30 Rockefeller Plaza
New York 20, New York
- AMERICAN LACE PAPER COMPANY
4425 N. Port Washington Road
Milwaukee 12, Wisconsin
- AMERICAN OIL COMPANY
Baltimore and South Streets
Baltimore 2, Maryland
- AMERICAN POTASH AND CHEMICAL
CORP.
3030 W. Sixth Street
Los Angeles 54, California
- AMERICAN SCIENTIFIC LABORA-
TORIES, INC.
P. O. Box 232
Madison 1, Wisconsin
- AMSCO CHEMICAL COMPANY
Memphis, Tennessee
- ANTARA CHEMICALS (A Sales Division
of General Aniline & Film Corp.)
435 Hudson Street
New York 14, New York
- A-PENN OIL COMPANY
P. O. Box 191
Butler, Pennsylvania
- APEX CHEMICAL COMPANY
P. O. Box 146
Apex, North Carolina
- ARKANSAS FUEL OIL CORP.
P. O. Box 1117
Shreveport, Louisiana
- ASPDEN ASSOCIATES, INC.
1003 Battleground Ave.
Greensboro, North Carolina
- ASSOCIATED SEED GROWERS, INC.
15 Main Street
Cambridge, New York
- ATHENS INSECTICIDE COMPANY,
INC.
N. Jackson Street
Athens, Tennessee
- ATLA CHEMICAL COMPANY, INC.
P. O. Box 1761
415 S. Spring St.
Greensboro, N. C.
- ATLANTIC & PACIFIC TEA CO.,
THE GREAT
2024 Thrift Road
Charlotte, North Carolina
- ATLAS AGRICULTURAL CHEMICALS,
INC.
P. O. Box 169
Waynesboro, Georgia
- BARKER, MOORE & MEIN COMPANY
541 N. Orianna Street
Philadelphia 23, Pennsylvania
- BAUER & BLACK
Division of The Kendall Company
309 W. Jackson Blvd.
Chicago 6, Illinois
- BEN VENUE LABORATORIES, INC.
270 Northfield Road
Bedford, Ohio

- BERK, F. W. & COMPANY, INC.
Park Place, E
Wood Ridge, New Jersey
- BERLOU MANUFACTURING CO.
421 Monroe Street
Marion, Ohio
- BEST EXTERMINATING SERVICE,
INC.
P. O. Box 631
Durham, North Carolina
- BLACK PANTHER COMPANY, INC.
P. O. Box 132
Sanford, North Carolina
- BLUE BALL CHEMICAL COMPANY
2506 Kuhl Avenue
Orlando, Florida
- BLUE MAGIC COMPANY
Wilson, North Carolina
- BOHLENDER PLANT CHEMICALS,
INC.
Tipp City, Ohio
- BONIDE CHEMICAL COMPANY
382 N. Genesee Street
Utica 4, New York
- BOYER CHEMICAL COMPANY
2232 S. Wabash Avenue
Chicago 16, Illinois
- BOYLE-MIDWAY, INC.
22 East 40th Street
New York 16, New York
- BRIDGEPORT BRASS COMPANY
30 Grand Street
Bridgeport 2, Connecticut
- BRONDOW, INC.
26 E. First Street
Mt. Vernon, New York
- C-B DRUG COMPANY
2219 Freedom Drive
Charlotte 8, North Carolina
- CALIFORNIA SPRAY-CHEMICAL
CORP.
Lucas & Ortho Way
Richmond 4, California
- CAPE FEAR CHEMICALS, INC.
P. O. Box 543
Elizabethtown, North Carolina
- CARAJON CHEMICAL COMPANY, INC.
P. O. Box 167
Fremont, Michigan
- CARBOLA CHEMICAL COMPANY,
INC.
Natural Bridge, New York
- CARBOLINEUM WOOD PRESERVING
CO.
528 W. Highland Avenue
Milwaukee 3, Wisconsin
- CAROLINA CHEMICALS, INC.
P. O. Box 128
W. Columbia, South Carolina
- CAROLINA CHEMICAL & PEST CON-
TROL
P. O. Box 368
Monroe, North Carolina
- CAROLINA FEED STORE
279 E. Main Street
Gastonia, North Carolina
- CARROLL CHEMICAL CO., THE
2301 Hollins Street
Baltimore 23, Maryland
- CARTER INSECTICIDE & CHEMICAL
CO., INC.
Wallace, North Carolina
- CEDAR HILL FORMULAE COMPANY,
THE
234 Steele Street
P. O. Box 1129
New Britain, Connecticut
- CENTER CHEMICAL COMPANY
P. O. Box 1888
Atlanta, Georgia
- CERASEAL CHEMICAL CORP.
P. O. Box 214
Chicago Heights, Illinois
- CHAMBERLAINS EXTERMINATORS
1 Ryan Street
Salisbury, North Carolina
- CHAMBERS-GODFREY MFG. Co.
302-04 Broadway
Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY
P. O. Box 3158
Mallory Station
Memphis 9, Tennessee
- CHAPMAN, M. A. & SON
P. O. Box 691
Canton, North Carolina
- CHEMAGRO CORP.
101 Park Avenue
New York 17, New York
- CHEMISTRY HALL LABORATORIES
P. O. Box 255
Bradenton, Fla.
- CHEMLEY PRODUCTS COMPANY
5744 Western Avenue
Chicago 45, Illinois
- CHEMWAY CORPORATION
Fairfield Road
Mountain View, New Jersey
- CHESTER CHEMICAL CORPORATION
2732 6th Avenue, South
St. Petersburg, Fla.
- CHIPMAN CHEMICAL COMPANY,
INC.
Bound Brook, New Jersey
- CLARKE & PROCTOR TURPENTINE
COMPANY
317 Worth Street
Fayetteville, North Carolina
- CLEAN HOME PRODUCTS, INC.
507 North Cardinal Street
St. Louis 3, Mo.
- CLEARY CORP., W. A.
P. O. Box 749
New Brunswick, New Jersey
- CLINTON NURSERIES
Boston Post Road
Clinton, Connecticut

- COASTAL CHEMICAL CORP.
Box 627
Greenville, North Carolina
- COLE STORES
Madison Street
Whiteville, North Carolina
- COLGATE-PALMOLIVE COMPANY
300 Park Avenue
New York 22, New York
- COLONIAL PRODUCTS, INC.
6207 Georgia Avenue
W. Palm Beach, Fla.
- COLONIAL STORES, INC.
P. O. Box 1113
Columbia, South Carolina
- COMMON SENSE MFG. CO., INC.
1392 Niagara Street
Buffalo 13, New York
- CONNCTICUT CHEMICAL
RESEARCH CORP.
706 Bostwick Avenue
Bridgeport 5, Connecticut
- COOK CHEMICAL COMPANY
2500 Summit Street
Kansas City, Mo.
- COOPER, WILLIAM & NEPHEWS, INC.
1909 N. Clifton Ave.
Chicago 14, Illinois
- CORONA CHEMICAL DIVISION
Pittsburgh Plate Glass Co.
New Albany Road
Moorestown, New Jersey
- COWLEY, S. L. & SONS MFG. CO.
708 W. McAlester Street
Hugo, Oklahoma
- CRE-O-TOX CHEMICAL PRODUCTS
CO.
2670 Broad Avenue
Memphis, Tennessee
- CRISP, S. A. CANINE COMPANY
Blacksburg, South Carolina
- DALY-HERRING COMPANY
Adkin & University Streets
Kinston, North Carolina
- DARWORTH INCORPORATED
Cuprinol Division
24 S. Hopmeadow Street
Simsbury, Connecticut
- DAUBERT CHEMICAL COMPANY
4700 S. Central Avenue
Chicago 38, Illinois
- DAVIS-YOUNG SOAP COMPANY, THE
705 Albany Street
Dayton, Ohio
- DAVISON CHEMICAL COMPANY
Division of W. R. Grace & Co.
P. O. Box 180
Wilmington, North Carolina
- D-CON COMPANY, INC., THE
1450 Broadway
New York 18, New York
- DE PREE COMPANY, THE
130 Central Avenue
Holland, Michigan
- DESOTO CHEMICAL COMPANY, INC.
N. DeSoto Avenue
Arcadia, Florida
- DIAMOND BLACK LEAF PRODUCTS
A Unit of Diamond Alkali Co.
P. O. Box 726
Richmond 6, Virginia
- DILL COMPANY, THE
Washington St. & McKinley Ave.
Norristown, Pennsylvania
- DIXI CHEMICAL COMPANY
P. O. Box 1711
Chattanooga, Tennessee
- DOLGE COMPANY, C. B.
Ferry Lane, W.
Westport, Connecticut
- DONALDSON COMPANY, INC.
666 Pelham Boulevard
St. Paul 14, Minn.
- DOUGLAS CHEMICAL COMPANY, THE
P. O. Box 5012
Richmond, Virginia
- DOUGLAS CHEMICAL COMPANY
620 East 16th Avenue
North Kansas City, Missouri
- DOW CHEMICAL COMPANY, THE
Midland, Michigan
- DUMAS MILNER CORPORATION
P. O. Box 4465
Fondren Station
Jackson, Miss.
- DRUGMASTER, INC.
4200 N. Union Blvd.
St. Louis 15, Missouri
- du PONT de NEMOURS AND
COMPANY, E. I.
Wilmington 98, Delaware
- ECONOMICS LABORATORY, INC.
914 Guardian Building
Saint Paul 1, Minnesota
- EDWARDS-COUNCILOR CO., INC.
121 Colley Avenue
Norfolk 10, Virginia
- ELECTROLUX CORPORATION
500 Fifth Avenue
New York 36, New York
- EMERY INDUSTRIES, INC.
4200 Carew Tower
Cincinnati 2, Ohio
- ESSO STANDARD OIL COMPANY
15 West 51st Street
New York 19, New York
- FAIRFIELD CHEMICAL DIVISION
Food Machinery & Chemical Corp.
P. O. Box 1616
Baltimore 3, Maryland
- FARMERS COOPERATIVE
EXCHANGE, INC.
P. O. Box 1069
Statesville, North Carolina
- FEDERAL CHEMICAL CO., INC.
2701 Winthrop Avenue
Indianapolis 5, Indiana

- FERGUSON COMPANY, ALEX. C.
44 East Oregon Avenue
Philadelphia 48, Pennsylvania
- FLORIDA AGRICULTURAL SUPPLY
COMPANY
1611 Talleyrand Avenue
Jacksonville 1, Florida
- FLORIDA CHEMICAL INDUSTRIES,
INC.
Rt. 1, Box 130-C
Gainesville, Florida
- FLY-CORD, INC.
P. O. Box 2006
Savannah, Georgia
- FRANKLIN RESEARCH COMPANY
5134 Lancaster Avenue
Philadelphia 31, Pennsylvania
- FREEWAX DIVISION
Chemical Corporation of America
P. O. Box 509
Tallahassee, Florida
- FRENCH COMPANY, THE R. T.
1 Mustard Street
Rochester 9, New York
- GALLOWHUR CHEMICAL CORP.
North Water Street
Ossining, New York
- GARDEN HOSE SPRAY CO., INC.
7 Upland Road
Cambridge 40, Mass.
- GASTON JOHNSTON CORPORATION
24-64 45th Street
Long Island City 3, New York
- GEIGY AGRICULTURAL CHEMICALS
89 Barclay Street
New York 8, New York
- GENERAL INSECTICIDE CO., INC
752 Herkimer Road
Utica, New York
- GEORGIA-CAROLINA OIL CO.
1403 Sixth Street
Box 101
Macon, Georgia
- GETEM MANUFACTURING CO., INC.
1261 W. 42nd Street
Norfolk 8, Virginia
- GIBSON-HOMANS COMPANY
Hutson Division
Railroad & Institute Street
Conyers, Georgia
- GLIDDEN COMPANY, THE
900 Union Commerce Building
Cleveland 2, Ohio
- GLOBE LABORATORIES
116 Commerce Street
Fort Worth 2, Texas
- GLOVER COMPANY, INC., H. CLAY
60 Hempstead Avenue
W. Hempstead, L. I., New York
- GRAHAM CHEMICAL COMPANY
P. O. Box 54
Greensboro, North Carolina
- GRANT COMPANY
2735 N. Ashland Avenue
Chicago 14, Illinois
- GREEVER'S, INC.
Chilhowie, Virginia
- GRISMER COMPANY, EARL
P. O. Box 5992
Indianapolis, Indiana
- GUARDIAN CHEMICAL COMPANY
P. O. Box 1354
Atlanta 1, Georgia
- GULF OIL CORPORATION
P. O. Box 1166
Pittsburgh 30, Pennsylvania
- H & M CHEMICAL COMPANY, INC.
43 Green Street
Sumter, South Carolina
- HAPPY JACK, INC.
P. O. Box 325
Snow Hill, North Carolina
- HARRIS & COMPANY, INC., J. M.
P. O. Box 411
Roanoke, Virginia
- HARRIS MFG. COMPANY, P. F.
101 W. 8th Street
North Little Rock, Arkansas
- HARRIS PRODUCTS COMPANY, INC.
P. O. Box 4
Miami Beach 39, Florida
- HELLER LABORATORIES, INC.
Calumet Avenue & 40th Street
Chicago 15, Illinois
- HERCULES POWDER COMPANY
Wilmington 99, Delaware
- HESS & CLARK, INC., DR.
7th & Orange Streets
Ashland, Ohio
- HILL MANUFACTURING COMPANY
1500 Jonesboro Road, SE
Atlanta, Georgia
- HILLYARD SALES COMPANY
302 N. 4th Street
St. Joseph 1, Miss.
- HILO COMPANY, THE
P. O. Box 246
Norwalk, Connecticut
- HINTON & COMPANY
67 Murray Street
New York 7, New York
- HOLCOMB MFG. COMPANY, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana
- HOOVER ELECTROCHEMICAL CO.
Buffalo Avenue and 47th Street
Niagara Falls, New York
- HOPKINS AGRICULTURAL
CHEMICAL CO.
740 Williamson Street
P. O. Box 584
Madison, Wisconsin
- HOUSE OF HUSTON, INC.
4135 Laguna
Coral Gables, Miami, Florida
- HOUSTON COMPANY, SAM
P. O. Box 662
Talladega, Alabama

- HOWERTON GOWEN COMPANY, INC.
P. O. Box 247
Roanoke Rapids, North Carolina
- HUGE COMPANY, INC., THE
884-86 Hodiamont Avenue
St. Louis 12, Missouri
- HUNTINGTON LABORATORIES, INC.
900-970 E. Tipton Street
Huntington, Indiana
- HUTSON & SONS, H. G.
P. O. Box 2190
Atlanta, Georgia
- HUTTIG SASH & DOOR COMPANY
1206 S. Vandeventer Avenue
St. Louis 10, Missouri
- HYDROPONIC CHEMICAL COMPANY, INC.
Copley, Ohio
- IMPERIAL CHEMICAL COMPANY
P. O. Box 24
Shenandoah, Iowa
- INSECT CONTROL SALES & SERVICE
P. O. Box 152
Candor, North Carolina
- IRWIN-WILLERT COMPANY
4044 Park Avenue
St. Louis 16, Missouri
- JDS LABORATORIES
7 E. Second Avenue
Rome, Georgia
- JOHNSON, S. C. & SON, INC.
1525 Howe Street
Racine, Wisconsin
- JONES PRODUCTS COMPANY, INC.
25 N. Charter Street
Madison 5, Wisconsin
- JUDSON DUNAWAY CORPORATION
Third & Grove
Dover, New Hampshire
- KAY CHEMICAL COMPANY
High Point, North Carolina
- KING CHEMICAL COMPANY
2342 South Lauderdale Street
Memphis, Tennessee
- KLENZADE PRODUCTS, INC.
P. O. Box 1020
Beloit, Wisconsin
- KNAPP-MONARCH COMPANY
3501 Bent Avenue
St. Louis 16, Mo.
- KOLKER CHEMICAL CORP.
600 Doremus Avenue
Newark 5, New Jersey
- KOPPERS COMPANY, INC.
Tar Products Division
430 Park Avenue
New York 22, New York
- LABCO PET PRODUCTS COMPANY
285 Franklin Street
Boston 10, Mass.
- LA SALLE CHEMICAL COMPANY
3601 S. Racine Avenue
Chicago 9, Illinois
- LATHAM CHEMICAL PRODUCTS
503 Neuse Street
Oriental, North Carolina
- LAURENCE, WIEST AND SHERMAN
753 Warner Building
Washington 4, D. C.
- LEBANON CHEMICAL CORP.
P. O. Box 532
Lebanon, Pennsylvania
- LEEDS CHEMICAL PRODUCTS, INC.
112 E. Walton Street
Chicago 11, Illinois
- LeGEAR MEDICINE CO., DR. L. D.
4161 Beck Avenue
St. Louis 16, Missouri
- LETHELIN PRODUCTS CO., INC.
15 MacQuesten Parkway, South
Mount Vernon, New York
- LINCK COMPANY, INC., O. E.
Route 46 and Valley Road
Clifton, New Jersey
- LINEN WHITE PRODUCTS CO., INC.
P. O. Box 114
Autryville, North Carolina
- McCLELLAN LABORATORIES CORP., C. U.
321 West Redondo Beach Blvd.,
Gardena, California
- McCORMICK & COMPANY, INC.
McCormick Building
Baltimore 2, Maryland
- McKESSON & ROBBINS, INC.
P. O. Box 548
Bridgeport, Connecticut
- McLAUGHLIN GORMLEY KING CO.
1715 Fifth Street, S.E.
Minneapolis 14, Minn.
- MABEX COMPANY, THE
Umbria & Lemonte Streets
Philadelphia 27, Pennsylvania
- MAHAFFEY COMPANY
P. O. Box 3145
Greenville, South Carolina
- MAINTENANCE SUPPLY COMPANY, INC.
P. O. Box 283
Huntersville, North Carolina
- MALLINCKRODT CHEMICAL WORKS
72 Gold Street
New York 8, New York
- MARK LABORATORIES, INC.
7215 Kelley Street
Pittsburgh 8, Pennsylvania
- MASTER PRODUCTS COMPANY
P. O. Box 531
Fayetteville, North Carolina
- MAXWELL INSECTICIDE CO., INC.
P. O. Box 5627
Raleigh, North Carolina
- MEADOWS CHEMICALS, INC.
80 Washington Street
Hempstead, L. I., New York

MEHERRIN AGRICULTURAL &
CHEMICAL COMPANY
Severn, North Carolina

MERCK & COMPANY, INC.
Rahway, New Jersey

MICHIGAN CHEMICAL CORP.
500 N. Bankson
St. Louis, Michigan

MIDLAND LABORATORIES
210-220 Jones Street
Dubuque, Iowa

MIKE, INC.
P. O. Box 92
Newland, North Carolina

MILLER CHEMICAL & FERTILIZER
CORP.
2226 N. Howard Street
Baltimore 18, Maryland

MILLER COMPANY, B. E.
P. O. Box 127
Hancock, Maryland

MILLER PRODUCTS COMPANY
607 Del Monte Way
St. Louis 12, Missouri

MINNESOTA PERLITE CORP.
315 West 86th Street
Minneapolis 20, Minnesota

MOLONY FERTILIZER COMPANY
P. O. Box 314
Charleston, South Carolina

MOORMAN MFG. COMPANY
Quincy, Illinois

MONSANTO CHEMICAL COMPANY
1700 S. Second St.
St. Louis 4, Missouri

MORTON CHEMICAL COMPANY
120 S. LaSalle St.
Chicago 3, Illinois

MOTOMCO, INC.
89 Terminal Avenue
Clark, New Jersey

MURRAY COMPANY, EDGAR A.
Division of Fairfax Biological
Laboratory
Electronic Road
Clinton Corners, New York

MUTUAL PRODUCTS COMPANY
509 N. Fourth Street
Minneapolis 1, Minnesota

NATIONAL ALUMINATE CORP.
6216 W. 66th Place
Chicago 38, Illinois

NIAGARA CHEMICAL DIVISION
Food Machinery & Chemical Corp.
1200 Talleyrand Avenue
Jacksonville, Florida

NIP-CO MANUFACTURING, INC.
P. O. Box 356
New Rochelle, New York

NORTHERN INDUSTRIES, INC.
Milwaukee, Wisconsin

NOTT MANUFACTURING CO., INC.
P. O. Box 87
Mount Vernon, New York

NOWLAND COMPANY, THE GEO. H.
2833 Spring Grove Avenue
Cincinnati 25, Ohio

NUODEX PRODUCTS COMPANY, INC.
c/o Cornelius Zabriskie, Esq.
120 W. 42nd Street
New York 36, New York

OLIN MATHIESON CHEMICAL CORP.
Mathieson Building
Baltimore 3, Maryland

ONE-SPOT COMPANY
Jessup, Maryland

OPITZ, INC., JOHN
50-14-39th Street
Long Island City 4, New York

OTTAWA CHEMICAL COMPANY, THE
819-823 Hamilton Street
Toledo 7, Ohio

PACIFIC COAST BORAX COMPANY
Division of Borax Consolidated, Ltd.
630 Shatto Place
Los Angeles 5, California

PANOGEN, INC.
Rt. 14
Woodstock, Illinois

PANTHER OIL & GREASE MFG. CO.
Box Seven Eleven
Fort Worth, Texas

PAPER PRODUCTS INCORPORATED
18554 S. Susana Road
Long Beach 5, California

PARKE, DAVIS & COMPANY
Jos. Campau at the River
Detroit 32, Michigan

PARRAMORE & GRIFFIN SEED CO.,
INC.
108 S. Toombs Street
Valdosta, Georgia

PEARSON & COMPANY
Box 431
Mobile, Alabama

PEELE COMPANY, INC., W. R.
P. O. Box 7
Raleigh, North Carolina

PENICK & COMPANY, S. B.
50 Church Street
New York 8, New York

PENN-CHAMP OIL CORPORATION
P. O. Box 191
Butler, Pennsylvania

PENNSALT OF WASHINGTON DIV.
2901 Taylor Way
Tacoma, Washington

PENNSYLVANIA ENGINEERING CO.
1119-21 N. Howard Street
Philadelphia 23, Pennsylvania

PENNSYLVANIA REFINING CO.
Butler, Pennsylvania

- PENNSYLVANIA SALT MANUFACTURING CO.
Three Penn Center Plaza
Philadelphia 2, Pennsylvania
- PEST-GUARD PRODUCTS, INC.
731 W. Davis Street
Dallas 8, Texas
- PESTICIDE DISTRIBUTING CO.
Charlotte, North Carolina
- PET CHEMICALS, INC.
3101 S. W. 38th Court
Miami, Florida
- PETPAK PRODUCTS COMPANY
5151 N. 32nd Street
Milwaukee 9, Wisconsin
- PFEIFFER COMPANY, THE
3965 Laclede Avenue
St. Louis 8, Missouri
- PFIZER & COMPANY, INC., CHARLES
11 Bartlett Street
Brooklyn 6, New York
- PHELPS DODGE REFINING CORP.
300 Park Avenue
New York 22, New York
- PIC CORPORATION
837 Broad Street
Newark, New Jersey
- PIEDMONT CHEMICAL CORP.
P. O. Box 978
Savannah, Georgia
- PIONEER MANUFACTURING CO., THE
3053 E. 87th Street
Cleveland, Ohio
- PLANTABBS CORPORATION
1105 Maryland Avenue
Baltimore 1, Maryland
- PLANTERS CHEMICAL CORP.
3111 Virginia Beach Blvd.
Norfolk, Virginia
- POLK MILLER PRODUCTS CORP.
2007 North Hamilton Street
Richmond, Virginia
- PRATT COMPANY, B. G.
204 21st Avenue
Paterson, New Jersey
- PRATT LABORATORIES, INC.
P. O. Box 602
Danville, Kentucky
- PRENTISS DRUG & CHEMICAL CO., INC.
101 W. 31st Street
New York 1, New York
- PRIVATE BRANDS, INC.
300 South 3rd Street
Kansas City 18, Kansas
- PROCTOR & GAMBLE COMPANY, THE
P. O. Box 599
Cincinnati 1, Ohio
- PROTECTION PRODUCTS MFG. CO.
2305 Superior Avenue
Kalamazoo, Michigan
- PUREX CORPORATION, LTD.
9300 Rayo Avenue
South Gate, California
- PYRROLE CHEMICAL CORP.
P. O. Box 218
Portsmouth, Ohio
- QUALITY CHEMICAL COMPANY
P. O. Box 70
Wilson, North Carolina
- QUALITY CHEMICAL CORPORATION
Memorial Avenue
Greenville, North Carolina
- RALSTON PURINA COMPANY
835 South Eighth Street
St. Louis, Missouri
- RAT BISCUIT COMPANY, THE
19½ N. Limestone Street
Springfield, Ohio
- RAT LUNCHES COMPANY
1407 Ogden Street
Denver 18, Colorado
- RAWLEIGH COMPANY, THE W. T.
223-225 E. Main Street
Freeport, Illinois
- REARDON LABORATORIES, INC.
W. G.
330 North Main Street
Port Chester, New York
- REASOR-HILL CORP.
Jacksonville, Arkansas
- REEFER-GALLER, INC.
521 Fifth Avenue
New York 17, New York
- REICHOLD CHEMICALS, INC.
General Sales Manager
South Division
Tuscaloosa, Alabama
- REILLY TAR & CHEMICAL CORP.
1615 Merchant Bank Building
Indianapolis 4, Indiana
- REX RESEARCH CORPORATION
600 Montrose Avenue
Toledo 7, Ohio
- REXALL DRUG COMPANY
8480 Beverly Boulevard
Los Angeles 54, California
- RIGO MANUFACTURING CO., INC.
P. O. Box 1188
Nashville, Tennessee
- ROANOKE CHOWAN CHEMICAL CORPORATION
214 Catherine Street
Ahoskie, North Carolina
- RODENT CONTROL FUND,
N. C. STATE COLLEGE
P. O. Box 5577
State College Station
Raleigh, North Carolina
- ROHM & HAAS COMPANY
222 W. Washington Square
Philadelphia 5, Pennsylvania

- ROYAL CHEMICAL COMPANY, INC.
P. O. Box 922
Albemarle, North Carolina
- ROYAL LACE PAPER WORKS, INC.
99 Gold Street
Brooklyn 1, New York
- SABINE CHEMICAL COMPANY
P. O. Box 1206
Port Arthur, Texas
- SALSBUURY'S LABORATORIES, DR.
500 Gilbert Street
Charles City, Iowa
- SANFAX COMPANY, THE
P. O. Box 604
Atlanta, Georgia
- SANITATION PRODUCTS COMPANY
1119 E. 10th Street
Charlotte, North Carolina
- SAUER COMPANY, THE C. F.
2000 W. Broad St.
Richmond, Virginia
- SCOTT INDUSTRIES
311 Bellevue
Jackson, Tennessee
- SCOTT & SONS COMPANY, O. M.
Marysville, Ohio
- SEACOAST LABORATORIES, INC.
156 Perry Street
New York 14, New York
- SEARS, ROEBUCK & COMPANY
925 South Homan Avenue
Chicago 7, Illinois
- SENORET CHEMICAL COMPANY
610 Gratiot Street
St. Louis 2, Missouri
- SEXTON & COMPANY, JOHN
10 Chestnut Street
Philadelphia 5, Pennsylvania
- SHELL OIL COMPANY
50 W. 50th Street
New York 20, New York
- SHEPARD CHEMICAL WORKS
317 S. 2nd Street
Wilmington, North Carolina
- SHERMAN LABORATORIES
Agricultural Division
5031 Grandy Avenue
Detroit 11, Michigan
- SHULTON, INC.
Clifton, New Jersey
- SHUPTRINE COMPANY
P. O. Box 644
Savannah, Georgia
- SINGLETARY, JR. & COMPANY, F. B.
208 S. Washington Street
Rocky Mount, North Carolina
- SMITH SEED & FEED COMPANY
315 Lynn Street
Danville, Virginia
- SMITH SPECIALTIES COMPANY, T. W.
P. O. Box 5146
Charlotte, North Carolina
- SOUTHERN AGRICULTURAL CHEMICALS, INC.
P. O. Box 238
Kingstree, South Carolina
- SOUTHERN AGRICULTURAL INSECTICIDES, INC.
P. O. Box 1130
Hendersonville, North Carolina
- SOUTHERN CHEMICAL COMPANY
P. O. Box 249
Hendersonville, North Carolina
- SOUTHERN NATIONAL MFG. CO.
Hollister, Missouri
- SOUTHERN PEST CONTROL CO., INC.
P. O. Box 1603
Charlotte, North Carolina
- SPINDLE CITY CHEMICAL COMPANY
P. O. Box 88
Canton, North Carolina
- SPIRITTINE CHEMICAL COMPANY
P. O. Box 233
Wilmington, North Carolina
- SPRATT'S PATENT (AMERICA) LIMITED
18 Congress Street
Newark 5, New Jersey
- SPRAYWAY, INC.
7644 Vincennes Avenue, South
Chicago 20, Illinois
- STALFORT PRESSURE-PAK, INC.
2012 Hammonds Ferry Road
Baltimore 27, Maryland
- STANDARD AGRICULTURAL CHEMICALS, INC.
1301 Jefferson Street
Hoboken, New Jersey
- STANDARD LABORATORIES, INC.
201 Tabor Road
Morris Plains, New Jersey
- STANDARD SPRAY & SUPPLY CO.
P. O. Box 63
Lakeland, Florida
- STATE CHEMICAL COMPANY
P. O. Box 878
Greenville, South Carolina
- STAUFFER CHEMICAL COMPANY
P. O. Box 5285
Tampa 5, Florida
- STEARNS' ELECTRIC PASTE CO.
111 W. Washington Street
Chicago 2, Illinois
- STEPHENSON CHEMICAL COMPANY
P. O. Box 188
College Park, Georgia
- STERLING COMPANY, INC., THE
2801-05 Locust Street
St. Louis 3, Missouri
- STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York
- STEVENS INDUSTRIES, INC.
P. O. Box 272
Dawson, Georgia

- STRICKLAND & COMPANY, J.
P. O. Box 2841
Memphis, Tennessee
- STULL'S CHEMICALS, INC.
3400 Nacogdoches Road
P. O. Box 6722
San Antonio, Texas
- SUN OIL COMPANY
1608 Walnut Street
Philadelphia 3, Pennsylvania
- SUWANNEE DRUG COMPANY
Newberry, Florida
- SWEENEY MANUFACTURING, INC.,
W. R.
340 S. Main Street
Salisbury, Missouri
- SWIFT & COMPANY
Plant Food Division
P. O. Box 210
Wilmington, North Carolina
- TANCK, INC., Ray H.
Middleton, Wisconsin
- TAYLOR CHEMICAL COMPANY
Aberdeen, North Carolina
- TENNESSEE COPPER COMPANY
Copperhill, Tennessee
- TENNESSEE CORPORATION
617-29 Grant Building
Atlanta 1, Georgia
- TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio
- TESCO CHEMICALS, INC.
1575 Northside Dr., N.W.
Atlanta, Georgia
- TEXIZE CHEMICALS, INC.
P. O. Box 1820
Greenville, South Carolina
- TOXITE LABORATORIES, INC.
Cumberland, Indiana
- UNION CARBIDE AND CARBON
CORPORATION
30 East 42nd Street
New York 17, New York
- UNION DRUG COMPANY
4300 Peterson Avenue
Chicago, Illinois
- U. S. BORAX & CHEMICAL CORP.
630 Shatto Place
Los Angeles 5, California
- U. S. RUBBER COMPANY
1230 Avenue of the Americas
New York 20, New York
- VACCINOL CHEMICAL COMPANY
P. O. Box 3205
Memphis 9, Tennessee
- VAN BRODE MILLING CO., INC.
20 Cameron Street
Clinton, Mass.
- VANDERBILT COMPANY, INC., R. T.
230 Park Avenue
New York 17, New York
- VAPOR PRODUCTS COMPANY
104 E. Kaly Avenue
Orlando, Florida
- VAPORETTE, INC.
823 Mercantile Bank Building
Dallas 1, Texas
- VESTAL LABORATORIES, INC.
4963 Manchester
St. Louis 10, Missouri
- VINELAND POULTRY LABORATORY
P. O. Box 70
Vineland, New Jersey
- VIRGINIA-CAROLINA CHEMICAL
CORPORATION
401 E. Main Street
Richmond, Virginia
- VIRGINIA CHEMICAL COMPANY
1829 Louisa Street
Richmond 20, Virginia
- VIRGINIA SMELTING COMPANY
West Norfolk, Virginia
- WALKER REMEDY COMPANY
224 Commercial
Waterloo, Iowa
- WATKINS COMPANY, THE J. R.
150 Liberty Street
Winona, Minnesota
- WECO PRODUCTS COMPANY
20 N. Wacker Drive
Chicago 6, Illinois
- WEEVIL-CIDE COMPANY, THE
1323 Union Avenue
Kansas City 1, Missouri
- WELLS & COMPANY, INC., S. C.
1-3 Church Street
LeRoy, New York
- WEST DISINFECTING COMPANY
42-16 West Street
Long Island City 1, New York
- WESTCHESTER VETERINARY
PRODUCTS
180 Mamaroneck Avenue
White Plains, N. Y.
- WESTON PRODUCTS COMPANY
330 W. Salisbury Street
Asheboro, North Carolina
- WESTVACO CHEMICAL DIVISION
Food Machinery and Chemical Corp.
161 East 42nd Street
New York 17, New York
- WHITMIRE RESEARCH LABORA-
TORIES, INC.
339 S. Vandeventer Avenue
St. Louis 10, Missouri
- WHITMOYER LABORATORIES, INC.
19 N. Railroad Street
Myerstown, Pennsylvania
- WILSON, INC., ANDREW
Baltusrol Way
Springfield, New Jersey
- WINDSOR WAX COMPANY, INC.
611 Newark Street
Hoboken, New Jersey

WINN-DIXIE STORES P. O. Box 840 Greenville, South Carolina	WORRELL-CONSOLIDATED LABO- RATORIES 1470 S. Vandeventer Avenue St. Louis 10, Missouri
WINRU CHEMICAL & SALES CO. 923 State Line Kansas City 1, Missouri	WRIGHT COMPANY, INC., M. A. 505 Court Street Brooklyn 31, New York
WONDER PRODUCTS COMPANY Salisbury, North Carolina	WYATT-QUARLES SEED COMPANY Raleigh, North Carolina
WOOD TREATING CHEMICALS CO. 5137 Southwest Avenue St. Louis 10, Missouri	WYETH LABORATORIES Division of American Home Products Corporation P. O. Box 8299 Philadelphia 1, Pennsylvania
WOODLETS, INC. 2048 Niagara Street Buffalo 7, New York	YALE CHEMICAL COMPANY P. O. Box 715 Nashville, Tennessee
WOOLFOLK CHEMICAL WORKS, LTD. East Main Street Fort Valley, Georgia	

N. C. Aerial Crop-Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its fifth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualification for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this article:

a. The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

b. The term "insecticide" means any substance or mixture of sub-

stances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

c. The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

d. The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.

e. The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

f. The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

g. The term "weed" means any plant or plant part which grows where not wanted.

h. The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.

i. The term "Commissioner" means the Commissioner of Agriculture.

j. The term "Board of Agriculture" means the North Carolina Board of Agriculture.

k. The term "custom application of pesticides" means any application of pesticides by aircraft.

l. The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

§106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examination, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, **provided**, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, materials and methods of application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this article. **Provided, however,** such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this article the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this article.

§106-65.20. Delegation of duties.—The functions vested in the Commissioner by this article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this article and of securing uniformity of regulations.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for license.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for license.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, revocation or suspension of license.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of license.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover

damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of contractors and applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

Licensees under N. C. Aerial Crop-Dusting Law for 1958

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1958. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1958, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1959.

CLARENCE BRISCO ANDERS
Horseshoe, North Carolina
Box 201, Florida City, Florida
Applicator

ANGE AND MODLIN
Attention: Marvin Ange
Plymouth, North Carolina
Contractor

JACK ARMSTRONG
P. O. Box 1231
New Bern, North Carolina
Applicator

W. H. BAGGETT
c/o J. M. Stephenson
Fuquay Springs, North Carolina
603 South 22nd Street
Ft. Pierce, Florida
Applicator and Contractor

JOE K. BALL, JR.
Confederate Dusting and Spraying Service
Louisburg, North Carolina
Applicator and Contractor

LLOYD H. BARNWELL
Barnwell Flying Service
Box 221
Douglas, Georgia
Box 295, Suffolk, Virginia
Applicator and Contractor

REX BEAMER
c/o Yadkin Valley, Inc.
Route 1
Pfafftown, North Carolina
Winston-Salem, North Carolina
Applicator

HALBERT E. CAMPBELL
Route 1, Box 315
Clinton, North Carolina
Applicator

ROBERT DALE CAMPBELL
P. O. Box 386
Wilson, North Carolina
Route 19, Box 598
Indianapolis, Indiana
Applicator

OSCAR B. CASE
55 Mt. Airy Street
Hendersonville, North Carolina
Meyer Flying Service
Hendersonville, North Carolina
Applicator and Contractor

H. H. CHRISTOPHER
H. H. Christopher Dusting Service
Box 446
Raeford, North Carolina
Box 716, Okeechobee, Florida
Applicator and Contractor

JAMES O. COMPTON, JR.
Compton's Flying Service
P. O. Box 362
South Boston, Virginia
Applicator and Contractor

ROBERT M. CONNER
c/o Elizabeth City Flight Service
Elizabeth City, North Carolina
Applicator

E. L. COX
546 Homewood Avenue
Burlington, North Carolina
Applicator

JOSEPH H. COX, JR.
c/o Bradley Milling Company
Hobgood, North Carolina
606 South 5th Street
Fort Pierce, Florida
Applicator and Contractor

JIM PATRICK CRAFT
Tractor Repair Shop
Farmville, North Carolina
Contractor

ALFRED CLAYTON CRAICHY
c/o Dillard Powell
Route 2
Ruffin, North Carolina
Route 6, Burwell, Nebraska
Applicator

RAYMOND D. DAVIS, JR.
Box 64
Nags Head, North Carolina
Applicator

JAMES L. DeHAVEN
Box 266
Ahoskie, North Carolina
Applicator

PETE DICKENS
Piedmont Aviation
Winston-Salem, North Carolina
Applicator

EMMELL E. EUBANK
c/o Holley Dusting Service
Box 945
Homestead, Florida
c/o W. D. Eubank
Boca Raton, Florida
Applicator

DOVER L. FOGLEMAN
Alamance Aviation Service, Inc.
Box 1331
Burlington, North Carolina
Applicator and Contractor

THELBERT A. FOUNTAIN
Ideal Dusting and Spraying Service
Route 1
Chinquapin, North Carolina
Richland, North Carolina
Applicator and Contractor

NORMAN EDWARD FROST
c/o Cottonland Hotel
Laurinburg, North Carolina
Myrtle Beach, South Carolina
Applicator

WILLIAM T. GIBSON, JR.
c/o Ladel Motel
Box 457
Gaffney, South Carolina
Applicator

GREENVILLE AVIATION, INC.
P. O. Box 22
Washington, North Carolina
Contractor

LINWOOD EARL HALL
1001 College Street
Clinton, North Carolina
Applicator

SHERMAN W. HANKE
Box 422
Clio, South Carolina
Summerfield, Florida
Applicator and Contractor

EUGENE HATCHELL
P. O. Box 293
Candor, North Carolina
Chester, South Carolina
Applicator

WILLIAM ONEAL HAWLEY
High Point, North Carolina
Jacksonville, North Carolina Airport
Applicator

WAYNE J. HENNINGS
P. O. Box 1231
New Bern, North Carolina
Applicator

WALTER E. HIGHT, JR.
c/o Turner's Flying Service
Henderson, North Carolina
Applicator

HOLLEY'S DUSTING SERVICE
J. W. Holley
P. O. Box 945
Homestead, Florida
Hendersonville, North Carolina
Contractor

JERNIGAN SPRAY SERVICE, INC.
Box 266
Ahoskie, North Carolina
Contractor

PERRY WALTER JONES
325 Spring Street
Hendersonville, North Carolina
P. O. Box 945
Homestead, Florida
Applicator

JOSH JORDAN
Box 275
Candor, North Carolina
Applicator and Contractor

EMIL J. KUTILEK
Washington, North Carolina
Applicator

CHARLES M. LEFFORGE
543 Rowland Street
Henderson, North Carolina
Elk Point, South Dakota
Applicator

JACK LOWERS
P. O. Box 293
Clinton, North Carolina
Applicator and Contractor

L. E. LYONS
c/o Yadkin Valley, Inc.
Route 1, Pfafftown, North Carolina
Applicator

DONALD R. MACK
Box 446
Raeford, North Carolina
Applicator

ERNEST HORACE MARSHALL
c/o 55 Mt. Airy Street
Hendersonville, North Carolina
Asheville, North Carolina
Applicator

GEORGE BASCOMB MARSHALL
c/o 55 Mt. Airy Street
Hendersonville, North Carolina
Asheville, North Carolina
Applicator

L. S. McMAHON
Route 2
Reidsville, North Carolina
Applicator and Contractor

CALVIN L. MERCER
225 E. 7th Avenue
Hendersonville, North Carolina
Applicator

RICHARD MINGES
Box 101
Washington, North Carolina
Applicator

CLARENCE T. MODLIN
Scotland Flying Service, Inc.
206 Wilson Street
Laurinburg, North Carolina
Applicator and Contractor

MAX MULLIS
Mullis Spraying Company
Box 457, York, South Carolina
Box 52
Boynton Beach, Florida
Applicator and Contractor

WALTER C. MYERS
312 Gilmer Street
Burlington, North Carolina
Applicator

R. D. NANCE
c/o Yadkin Valley Inc.
Route 1
Pfafftown, North Carolina
Winston-Salem, North Carolina
Applicator

JACKIE DIXON NAYLOR
P. O. Box 63
Clinton, North Carolina
Applicator

JAMES A. NAYLOR
P. O. Box 132
Clinton, North Carolina
Applicator

ROBERT A. NAYLOR
Clinton Flying Service
P. O. Box 63
Clinton, North Carolina
Applicator and Contractor

NEIL F. OLESON
103 Poplar Drive
Greenville, North Carolina
Applicator and Contractor

DELMAR C. OWENS
Owens Crop Dusting Service
Route 2
Roper, North Carolina
Applicator and Contractor

JOHN E. PACE, JR.
Box 202
Ridgeway, Virginia
Applicator and Contractor

JACK PARKS
c/o Yadkin Valley Inc.
Route 1
Pfaltown, North Carolina
Applicator

KENNETH LEE PASCHAL
Reidsville, North Carolina
Applicator

DILLARD M. POWELL
Route 2
Ruffin, North Carolina
Contractor

F. M. POWELL
Box 145
Zebulon, North Carolina
Applicator and Contractor

ARTHUR JACKSON PRYOR
c/o Yadkin Valley Inc.
Route 1
Pfaltown, North Carolina
Winston-Salem, North Carolina
Applicator

M. M. RODDY
P. O. Box 471
Rocky Mount, North Carolina
Applicator and Contractor

PAT SCHIFFER
P. O. Box 293
Clinton, North Carolina
Plainwell, Nebraska
Applicator

VERDY SHEPHERD
Lindy's Spraying Service
1108 Garfield Road
Burlington, North Carolina
Liberty, North Carolina
Applicator and Contractor

NATHAN M. SIMPSON
Simpson Crop Service
R.F.D. 2
Elon College, North Carolina
Applicator and Contractor

B. B. SLAUGHTER, JR.
c/o Yadkin Valley Inc.
Route 1
Pfaltown, North Carolina
Winston-Salem, North Carolina
Applicator

JOSEPH J. SMITH
Joe Smith Aerial Spraying
282 Arnett Blvd.
Danville, Virginia
Applicator and Contractor

THOMAS E. STANCIL
Stancil Flying Service
P. O. Box 101
Washington, North Carolina
Applicator and Contractor

DOCK STARNES
Rowland, North Carolina
Boynton Beach, Florida
Applicator

RHONDA L. STORY
Pamlico Flying Service
413 Avenue A
New Bern, North Carolina
Applicator and Contractor

HILTON ROY SULLIVAN
115 S. Fern Avenue
Highland Springs, Virginia
Applicator

ELBERT SUTHARD, JR.
c/o L. S. McMahon
Route 2
Reidsville, North Carolina
Applicator

STANLEY S. SYRLINGA
P. O. Box 421
Zellwood, Florida
General Delivery
Laurinburg, North Carolina
Applicator and Contractor

GENE ALLEN SWOFFORD
1023 Gregory Street
Greensboro, North Carolina
Applicator

AYLOR T. TALBOTT
Wm. Tuck Airport
South Boston, Virginia
Applicator and Contractor

BENJAMIN W. TRUEBLOOD
P. O. Box 471
Rocky Mount, North Carolina
Applicator

ROBERT J. TURNER, JR.
Turner's Flying Service
Henderson, North Carolina
Applicator and Contractor

VERNON VAUDRIN
P. O. Box 63
Clinton, N. C.
Applicator

ALBERT R. VAUGHAN
Al's Crop Spraying Service
Route 3
Virgilina, Virginia
Applicator and Contractor

GLEN W. WAITE
P. O. Box 231
Washington, North Carolina
Applicator

BEN WALKER

c/o Yadkin Valley Inc.
Route 1
Pfafftown, North Carolina
Greensboro, North Carolina
Applicator

GEORGE D. WALTERS

P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

H. C. WARF

Warf's Flying Service
Route 6
Reidsville, North Carolina
Applicator and Contractor

FRED WHITFIELD

Fred's Spray Service
Route 2
Burlington, North Carolina
Applicator and Contractor

ROBERT O. WHITFIELD

Whitfield Airplane Spraying
Hurdle Mills, North Carolina
Applicator and Contractor

JOHN H. WHITTINGTON

c/o Jim Patrick Craft
Tractor Repair Shop
Farmville, North Carolina
Charlotte, North Carolina
Applicator

J. B. WILLIAMS, JR.

P. O. Box 471
Rocky Mount, North Carolina
Applicator

YADKIN VALLEY, INC.

Route 1
Pfafftown, North Carolina
Contractor

JAMES C. YORK

Route 2, Box 203
Ramseur, North Carolina
Applicator

LONNIE YORK

York's Spraying Service
Route 2, Box 203
Ramseur, North Carolina
Contractor

**Official Analyses
of
Economic Poisons
1958**

Summary of Economic Poisons Examined — 1958

T Y P E S	S A M P L E S				
	Passed	De- ficient	Exces- sive Active Ingred- ient	Mis- branded	Not Regis- tered
Arsenicals					
Arsenic Trioxide	16	16	---	---	1
Calcium Arsenate-Calcium Arsenite	1	---	---	---	---
Lead Arsenate	11	---	---	---	---
Paris Green	1	---	---	---	---
Sodium Arsenate	6	1	---	---	1
Sodium Arsenite	1	---	---	---	---
Arsenic with other materials	8	---	---	---	---
Organic Chlorine Compounds					
Aldrin-Aldrin with DDT-Sulfur	18	12	---	---	---
Benzene Hexachloride	38	7	---	---	1
BHC-DDT-Sulfur Mixtures	53	2	---	---	---
BHC-DDT with other materials	7	2	---	---	3
BHC with other materials	9	1	---	---	---
Captan preparations	11	1	---	---	---
Chlordane preparations	50	9	---	---	4
2,4-D - 2,4,5-T	8	---	---	---	---
D-D	3	---	---	---	---
DDD preparations	91	13	2	---	---
DDT	109	22	1	---	1
DDT with other materials	80	11	---	---	1
Dieldrin	2	---	---	---	1
Dipterex	3	---	---	---	---
Endrin	57	1	---	---	---
Ethylene Dichloride-Carbon Tetrachloride	1	---	---	---	---
Heptachlor preparations	12	5	---	---	1
Methoxychlor preparations	30	7	---	4	1
Nemagon	1	1	---	---	---
Paradichlorobenzene	3	---	---	---	---
Perthane	2	---	---	---	---
Sodium Trichloroacetate	1	---	---	---	---
Terpene Polychlorinates	1	---	---	---	---
Tetrachloromethane	1	---	---	---	---
Toxaphene preparations	107	3	---	---	---
Metallie Compounds					
Calcium Compounds	2	---	---	---	---
Copper-Copper with other materials	6	---	---	---	---
Diazinon	1	---	---	---	---
Malathion-Malathion with other materials	71	6	---	---	3
Metallic Dithiocarbamate preparations	43	1	---	---	---
Parathion preparations	27	1	---	1	1
Phenyl Mercuric Acetate	1	---	---	---	---
Phosdrin	1	2	---	---	---
Phosphorus	2	---	---	---	1
Potassium Cyanate	1	1	---	---	---
Semesan	1	---	---	---	---
Sodium Compounds	1	---	---	---	1
Thallium Sulfate	12	---	---	---	---
Botanicals					
Nicotine	1	---	---	---	---
Pyrethrins preparations	25	---	---	---	1
Rotenone preparations	147	22	1	1	5
Sabadilla	36	3	---	---	1
Miscellaneous					
Ammonium Sulfamate	1	---	---	---	---
Benzol	1	---	---	---	---
Boron Compounds	4	---	---	---	---
Fluorine Compounds	6	---	---	---	1
Fumarin	4	---	---	---	2
Glyodin	1	---	---	---	---
MH-30	6	---	---	---	---
Phenols-BHC-Malathion	13	3	---	---	---
Pine Oil	3	---	---	1	---
Pival	3	---	---	---	---
Sulfur	2	---	---	---	---
Thiram	1	---	---	---	---
Warfarin	18	---	---	---	2
TOTALS	1193	153	4	7	33

Number manufacturers registered (total)	371
Number manufacturers registered from North Carolina	54
Number items registered	3,138
Number stop sale orders issued	166

Decisions

The results of analyses of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analysis may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analyses of Economic Poisons, 1958

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
ALDRIN			
Acme Fertilizer Company			
Acme 5% Aldrin			
Aldrin	5.00	4.79	Passed
California Spray-Chemical Corporation			
Ortho Aldrin 2 Spray			
Aldrin	24.21	22.74	Deficient
Cape Fear Chemicals, Inc.			
Tiger Brand 2½% Aldrin Equivalent Dust			
Aldrin	2.50	1.60	Deficient
Coastal Chemical Corporation			
Aldrin Emulsion			
Aldrin	23.70	24.47	Passed
Daly Herring Company			
Dee Aitch 2.5 Aldrin Cotton Dust			
Aldrin	2.50	2.60	Passed
Davison Chemical Company			
Naco Aldrin Spray			
Aldrin	24.74	25.52	Passed
Olin Mathieson Chemical Corporation			
Aldrin 10% Dust			
Aldrin	10.00	8.14	Deficient
W. R. Peele Company, Inc.			
Pelco 5% Aldrin Granulated			
Aldrin	5.00	4.44	Deficient
do	5.00	4.64	Deficient
do	5.00	4.57	Deficient
Pelco 2 lb. Aldrin Emulsifiable Concentrate			
Aldrin	24.31	20.84	Deficient
do	24.31	17.89	Deficient
Quality Chemical Company			
Aldrin Emulsion			
Aldrin	23.16	19.18	Deficient

* See preceding page for explanations of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corporation			
Aldrin Dust			
Aldrin	2.50	1.87	Deficient
Southern Agricultural Chemicals, Inc.			
Royal Brand 5% Aldrin Granular			
Aldrin	5.00	5.00	Passed
do	5.00	4.64	Deficient
Taylor Chemical Company			
Superkill 23% Aldrin Emulsifiable Concentrate			
Aldrin	24.74	22.34	Deficient
ALDRIN - DDT			
Acme Fertilizer Company			
2½% Aldrin with 10% DDT Dust			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical chlorine	6.63	6.59	
Carolina Chemicals, Inc.			
Flight Brand Aldrin-DDT Dust 2½-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.13	3.97	
Davison Chemical Company			
Naco Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	3.95	4.12	
Farmers Cooperative Exchange, Inc.			
FCX 2½-5-0 Aldrin-DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.13	5.12	
Olin Mathieson Chemical Corporation			
Mathieson 2.5-5-0 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.13	4.06	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.13	4.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 2½% Aldrin 5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	3.95	3.83	
Planters Chemical Corporation			
Planters Aldrin - DDT Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.13	3.93	
Swift and Company			
Gold Bear Brand Insecticide Dust WD 2.5-5			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.26	
Gold Bear Brand Insecticide Dust WD 2.5-10			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical chlorine	6.97	7.00	
Taylor Chemical Company			
Superkill 2½% Aldrin Cotton Dust (without Sulfur)			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	3.95	4.05	
ALDRIN - DDT - SULFUR			
Davison Chemical Company			
Naco Aldrin 118 Cotton Dust 2.5-5-40			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	40.05	
Theoretical chlorine	3.95	4.19	
Taylor Chemical Company			
Superkill 5-10-40 Aldrin Cotton Dust			
Aldrin	5.00		Passed
DDT	10.00		
Sulfur	40.00	39.15	
Theoretical chlorine	8.23	8.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ARSENICALS			
ARSENIC TRIOXIDE			
Blue Ball Chemical Company			
Mol-Ex			
Arsonic Trioxide	2.00	1.65	Deficient
Chamberlains Exterminators			
Chamberlains Rat Poison			
Arsonic trioxide	2.00	2.49	Passed
M. A. Chapman and Son			
Kill-Em Rat Poison			
Arsonic Trioxide	2.20	2.23	Passed
do	2.20	3.27	Passed
do	2.20	2.12	Passed
do	2.20	2.13	Passed
do	2.20	2.31	Passed
do	2.20	1.85	Deficient
do	2.20	1.48	Deficient
do	2.20	1.78	Deficient
do	2.20	1.99	Deficient
Kill-Em Rat & Mouse Exterminator			
Arsonic trioxide	2.60	2.03	Deficient Not Registered
S. L. Cowley and Sons Manufacturing Company			
Cowleys Rat and Mouse Poison			
Arsonic trioxide	1.75	2.44	Passed
do	1.75	2.52	Passed
Eagle Products Company, Inc.			
Flipo Rat Killer			
Arsonic Trioxide	3.00	0.92	Deficient
F. B. Singletary, Jr. and Company			
Singletary's Rat and Mouse Exterminator			
Arsonic Trioxide	3.00	3.70	Passed
Singletary's Single Treatment Pest Control			
Arsonic trioxide	3.50	2.46	Deficient
do	3.50	2.94	Deficient
do	3.50	2.88	Deficient
do	3.50	2.95	Deficient
do	3.50	2.43	Deficient
do	3.50	4.13	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Singletary's Single Treatment Pest Control (Continued)			
Arsenic trioxide	3.50	3.53	Passed
do	3.50	3.48	Passed
do	3.50	3.50	Passed
do	3.50	4.98	Passed
do	3.50	2.38	Deficient
do	3.50	2.20	Deficient
do	3.50	2.83	Deficient
do	3.50	2.45	Deficient
Southern Chemical Company			
Nok-Out Bam			
Arsenic trioxide	3.00	3.02	Passed
do	3.00	3.29	Passed
CALCIUM ARSENATE-CALCIUM ARSENITE			
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
Quick-kill Poison			
Calcium arsenate	63.00		Passed
Calcium arsenite	5.50		
Arsenic as metallic	26.00	27.76	
Arsenic—water soluble (not more than) ..	2.00	0.42	
LEAD ARSENATE			
California Spray-Chemical Corporation			
Ortho Standard Lead Arsenate			
Lead arsenate	95.00		Passed
Arsenic as metallic	20.50	21.97	
Arsenic—water soluble (not more than) ..	0.50	0.13	
Lead as metallic	56.70	64.00	
The DeSoto Chemical Company			
Gater Roach Hives			
Lead arsenate	16.20		Passed
Arsenic as metallic	3.50	4.06	
Chipman Chemical Company, Inc.			
Chipman Hi-Test Lead Arsenate			
Lead Arsenate	98.00		Passed
Arsenic as metallic	21.00	22.53	
Arsenic—water soluble (not more than) ..	0.35	0.14	
Lead as metallic	58.00	58.54	
Lead Arsenate	98.00		Passed
Arsenic as metallic	21.00	22.15	
Arsenic—water soluble (not more than) ..	0.35	0.18	
Lead as metallic	58.00	63.23	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Chipman Hi-Test Lead Arsenate (Continued)			
Lead Arsenate	98.00		Passed
Arsenic as metallic	21.00	22.66	
Arsenic—water soluble (not more than) ..	0.35	0.13	
Lead as metallic	58.00	59.47	
Lead Arsenate	98.00		Passed
Arsenic as metallic	21.00	22.56	
Arsenic—water soluble (not more than) ..	0.35	0.32	
Lead as metallic	58.00	58.75	
E. I. du Pont de Nemours and Company			
NuRex Form Standard Lead Arsenate			
Lead Arsenate	96.00		Passed
Arsenic as metallic	19.56	22.50	
Arsenic—water soluble (not more than) ..	0.33	0.33	
Lead as metallic	58.00	58.61	
Miller Chemical and Fertilizer Corporation			
Miller Arsenate of Lead			
Lead Arsenate	97.00		Passed
Arsenic as metallic	20.00	20.80	
Arsenic—water soluble (not more than) ..	0.50	0.27	
Lead as metallic	58.00	59.24	
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
Niagara Suspenso Lead Arsenate			
Lead Arsenate	96.00		Passed
Arsenic as metallic	19.56	21.11	
Arsenic—water soluble (not more than) ..	0.50	0.13	
Lead as metallic	58.00	59.53	
United Cooperatives, Inc.			
(Now: Farmers Cooperative Exchange, Inc.)			
Unico Arsenate of Lead			
Lead Arsenate	96.00		Passed
Arsenic as metallic	20.72	22.06	
Arsenic—water soluble (not more than) ..	0.50	0.13	
Lead as metallic	58.00	58.86	
Woolfolk Chemical Works, Ltd.			
Lead Arsenate			
Lead Arsenate	97.00		Passed
Arsenic as metallic	20.90	21.44	
Arsenic—water soluble (not more than) ..	0.33	0.07	
Lead as metallic	57.80	63.22	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PARIS GREEN			
Allied Chemical and Dye Corporation General Chemical Division			
Orchard Brand Paris Green			
Copper acetoarsenite	91.70		Passed
Arsenic as metallic	40.65	41.32	
Arsenic—water soluble (not more than) ..	2.70	0.98	
Copper as metallic	23.00	23.98	
SODIUM ARSENATE			
Atla Chemical Company, Inc.			
Atla Anti-Ant			
Sodium arsenate	1.88	1.88	Passed
Eagle Products Company, Inc.			
Flipo Quick Acting Rat Killer			
Sodium arsenate	3.00	1.46	Deficient Not Registered
Harris Products Company, Inc.			
Ant Buttons			
Sodium arsenate	1.71	2.48	Passed
Mahaffey Company			
Mahaffey's Rat Killer			
Sodium arsenate	2.50	3.44	Passed
do	2.50	2.74	Passed
Mahaffey's Ant Killer			
Sodium arsenate	6.00	6.94	Passed
Senoret Chemical Company			
Terror Ant Killer			
Sodium arsenate	2.27	2.30	Passed
SODIUM ARSENITE			
Boyle-Midway, Inc.			
Antrol Ant Syrup			
Sodium arsenite	0.61	0.71	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ARSENIC - CAPTAN - DDT			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico General Purpose Fruit Spray Powder			
Lead arsenate	25.00		Passed
Arsenic as metallic	5.39	5.39	
Captan	10.00		
DDT	10.00		
Theoretical chlorine	8.54	8.51	
Lead arsenate	25.00		Passed
Arsenic as metallic	5.39	5.26	
Captan	10.00		
DDT	10.00		
Theoretical chlorine	8.54	8.16	
ARSENIC - COPPER - SULFUR - ZINC			
Taylor Chemical Company			
Pan Apple Spray			
Lead arsenate	16.00		Passed
Arsenic as metallic	3.00	3.25	
Arsenic—water so'uble (not more than) ..	0.30	0.09	
Copper as metallic	3.20	3.28	
Sulfur	38.00	43.40	
Zinc as metallic	4.60	4.70	
ARSENIC - DDT - FERBAM			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
General Purpose Fruit Spray			
Lead arsenate	25.00		Passed
Arsenic as metallic	5.39	5.35	
DDT	10.00	9.50	
Ferbam	11.40	10.87	
ARSENIC - METALDEHYDE			
Boyle-Midway, Inc.			
Snarol Pellets			
Calcium arsenate	5.00	5.10	Passed
Metaldehyde	3.15	3.73	
California Spray-Chemical Corporation			
Ortho Bug-Geta Pellets			
Calcium arsenate	5.00	7.28	Passed
Metaldehyde	3.25	4.12	
Calcium arsenate	5.00	6.72	Passed
Metaldehyde	3.25	3.92	
Calcium arsenate	5.00	6.91	Passed
Metaldehyde	3.25	4.32	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC			
Acme Quality Paints, Inc.			
Acme 5% Lindane Spray			
Gamma isomer of BHC	5.00	4.96	Passed
California Spray-Chemical Corporation			
Ortho Louse, Tick and Flea Powder			
Gamma isomer of BHC	1.00	0.95	Passed
do	1.00	1.40	Passed
do	1.00	1.05	Passed
do	1.00	1.50	Passed
do	1.00	0.88	Deficient
do	1.00	1.52	Passed
do	1.00	0.95	Passed
do	1.00	1.00	Passed
do	1.00	0.90	Deficient
do	1.00	1.05	Passed
do	1.00	0.88	Deficient
do	1.00	0.90	Deficient
do	1.00	0.85	Deficient
Isotox Transplanter Solution			
Gamma isomer of BHC	5.00	7.18	Passed
do	5.00	7.44	Passed
Farmers Cooperative Exchange, Inc.			
FCX 3-0-0 BHC Dust			
Gamma isomer of BHC	3.00	3.09	Passed
Freewax Division Chemical Corporation of America			
FreeWax Self Polishing Floor Wax			
Gamma isomer of BHC	0.50	0.59	Passed
do	0.50	0.58	Passed
Globe Laboratories			
Globe Flea, Lice and Tick Powder for Dogs			
Gamma isomer of BHC	1.00	1.05	Passed
S. H. Kress, Inc.			
Bug Free			
Gamma isomer of BHC	0.27	0.20	Not Registered
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Louse Powder			
Gamma isomer of BHC	1.00	1.00	Passed
do	1.00	0.95	Passed
do	1.00	0.95	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dr. Le Gear's Louse Powder (Continued)			
Gamma isomer of BHC	1.00	0.98	Passed
do	1.00	1.00	Passed
do	1.00	1.28	Passed
do	1.00	1.02	Passed
do	1.00	0.95	Passed
do	1.00	0.95	Passed
do	1.00	0.95	Passed
do	1.00	1.12	Passed
do	1.00	0.95	Passed
do	1.00	1.25	Passed
do	1.00	0.95	Passed
do	1.00	1.05	Passed
do	1.00	0.95	Passed
do	1.00	1.05	Passed
do	1.00	0.95	Passed
do	1.00	0.90	Deficient
Ralston Purina Company			
Ralston Poultry Insecticide (Roost Paint)			
Gamma isomer of BHC	1.50	1.55	Passed
Purina Lin-Dairy Spray			
Gamma isomer of BHC	25.00	22.14	Deficient
Rigo Manufacturing Company, Inc.			
Kill-Ko Lindane Emulsifiable Concentrate			
Gamma isomer of BHC	13.00	11.95	Deficient
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico 12% Gamma BHC Wettable Powder			
Gamma isomer of BHC	12.00	12.30	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand BHC Concentrate Emulsifiable			
Gamma isomer of BHC	11.50	11.00	Passed
M. A. Wright Company			
Tic-Ro Insect Killer			
Gamma isomer of BHC	0.50	0.53	Passed
do	0.50	0.70	Passed
BHC - CAPTAN			
California Spray-Chemical Corporation			
Isotox 25 Seed Treater			
Gamma isomer of BHC	25.00		Passed
Captan	12.50		
Theoretical chlorine	22.71	21.63	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC - CHLORANIL - PIPERONYL BUTOXIDE - PYRETHRINS			
Polk Miller Products Corporation			
Sergeant's Skip-Flea Scratch Powder			
Gamma isomer of BHC	1.00		Passed
Chloranil	5.00		
Piperonyl butoxide	0.45	0.25	
Pyrethrins	0.045	0.049	
Theoretical chlorine	3.61	3.62	
BHC - COPPER			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Cucumber and Squash Dust			
Gamma isomer of BHC	1.00	1.25	Passed
Copper as metallic	6.50	6.61	
BHC - DDD - MALATHION			
California Spray-Chemical Corporation			
Isotox Garden Spray			
Gamma isomer of BHC	5.00		Passed
DDD	5.00		
Malathion	12.50	14.80	
Theoretical chlorine	5.88	5.84	
Gamma isomer of BHC	5.00		Passed
DDD	5.00		
Malathion	12.50	13.67	
Theoretical chlorine	5.88	5.89	
BHC - DICHLOROPHENE - MALATHION			
Happy Jack, Inc.			
Happy Jack Flea-Tick Powder			
Gamma isomer of BHC	1.00		Passed
Dichlorophene	2.00		
Malathion	2.00	2.41	
Theoretical chlorine	1.26	1.28	
BHC - DIELDRIN			
California Spray-Chemical Corporation			
Ortho Lawn-Garden Dieldrin Granules			
Gamma isomer of BHC	1.00		Passed
Dieldrin	4.00		
Theoretical chlorine	2.95	3.08	
Gamma isomer of BHC	1.00		Passed
Dieldrin	4.00		
Theoretical chlorine	2.95	2.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho Lawn-Garden Dieldrin Granules (Continued)			
Gamma isomer of BHC	1.00		Passed
Dieldrin	4.00		
Theoretical chlorine	2.95	2.92	
BHC - MALATHION			
Greenhouse Supply Company			
Flea-I-Cide			
Gamma isomer of BHC	1.00	1.35	Deficient
Malathion	1.50	0.93	
BHC - DDT			
Acme Fertilizer Company			
3% BHC-5% DDT Dust			
Gamma isomer of BHC	3.00	3.44	Passed
DDT	5.00	4.75	
3% BHC-10% DDT Dust			
Gamma isomer of BHC	3.00	2.93	Passed
DDT	10.00	9.72	
California Spray-Chemical Corporation			
Gammacide 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.29	Passed
DDT	5.00	5.47	
Gamma isomer of BHC	3.00	3.65	Passed
DDT	5.00	5.12	
Gamma isomer of BHC	3.00	3.43	Passed
DDT	5.00	5.18	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	6.18	
Gammacide 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.17	Passed
DDT	10.00	9.86	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT Dust 3-5-0			
Gamma isomer of BHC	3.00	3.45	Passed
DDT	5.00	5.57	
Flight Brand BHC-DDT Dust 3-10-0			
Gamma isomer of BHC	3.00	3.28	Passed
DDT	10.00	11.23	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Davison Chemical Company			
Benny-Hex Cotton Dust 3-5-0 H			
Gamma isomer of BHC	3.00	3.21	Passed
DDT	5.00	4.95	
Gamma isomer of BHC	3.00	3.56	Passed
DDT	5.00	5.92	
Gamma isomer of BHC	3.00	3.56	Passed
DDT	5.00	5.96	
Gamma isomer of BHC	3.00	3.27	Passed
DDT	5.00	5.36	
Benny-Hex Cotton Dust 5-10-0 H			
Gamma isomer of BHC	3.00	3.38	Passed
DDT	10.00	10.86	
Naco Customer Special Mixture BHC 3% and DDT 20%			
Gamma isomer of BHC	3.00	3.82	Passed
DDT	20.00	19.72	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC-DDT Dust			
Gamma isomer of BHC	3.00	3.01	Passed
DDT	5.00	5.14	
Gamma isomer of BHC	3.00	3.09	Passed
DDT	5.00	5.33	
FCX 3-10-0 BHC - DDT Dust			
Gamma isomer of BHC	3.00	3.32	Passed
DDT	10.00	10.03	
Gamma isomer of BHC	3.00	3.34	Passed
DDT	10.00	10.63	
Gamma isomer of BHC	3.00	3.40	Passed
DDT	10.00	10.19	
Niagara Chemical Division Food Machinery and Chemical Corporation			
Two-N-One Cotton Dust			
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.55	
Gamma isomer of BHC	3.00	3.41	Passed
DDT	5.00	5.90	
3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.36	Passed
DDT	10.00	10.04	
Gamma isomer of BHC	3.00	3.44	Passed
DDT	10.00	10.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corporation			
Mathieson 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.40	Passed
DDT	5.00	6.32	
Mathieson 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.04	Passed
DDT	10.00	10.24	
Gamma isomer of BHC	3.00	3.48	Passed
DDT	10.00	11.21	
Gamma isomer of BHC	3.00	3.40	Passed
DDT	10.00	11.38	
W. R. Peele Company, Inc.			
Pelco 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.25	Passed
DDT	5.00	5.56	
Gamma isomer of BHC	3.00	3.28	Passed
DDT	5.00	5.65	
Gamma isomer of BHC	3.00	3.23	Passed
DDT	5.00	5.15	
Pelco 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.48	Passed
DDT	10.00	9.85	
Ralston Purina Company			
Purina Stock Spray			
Gamma isomer of BHC	2.50	3.12	Passed
DDT	45.00	46.34	
Gamma isomer of BHC	2.50		Passed
DDT	45.00		
Theoretical chlorine	24.33	25.18	
Purina Fly Spray			
Gamma isomer of BHC	0.50		Passed
DDT	45.00		
Theoretical chlorine	24.87	24.10	
Swift and Company			
Gold Bear Brand Insecticide Dust BD 3-5			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	5.52	
Gamma isomer of BHC	3.00	3.43	Passed
DDT	5.00	5.57	
Gamma isomer of BHC	3.00	2.76	Deficient
DDT	5.00	5.53	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Gold Bear Brand Insecticide Dust BD 3-10			
Gamma isomer of BHC	3.00	3.75	Deficient
DDT	10.00	8.61	
Gamma isomer of BHC	3.00	2.95	Passed
DDT	10.00	10.27	
Gamma isomer of BHC	3.00	3.25	Passed
DDT	10.00	10.82	
Taylor Chemical Company			
Superkill 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.26	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	5.00	5.55	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.27	
Gamma isomer of BHC	3.00	3.05	Passed
DDT	5.00	5.34	
Superkill 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.56	Passed
DDT	10.00	10.29	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	10.00	10.52	
Superkill 3-20-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.03	Passed
DDT	20.00	20.88	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.71	Passed
DDT	5.00	6.39	
BHC - DDT - ARAMITE - CAPTAN - DDD			
California Spray-Chemical Corporation			
Ortho Home Orchard Spray			
Gamma isomer of BHC	2.00	14.53	Passed
DDT	8.00		
Aramite	4.25		
Captan	12.50		
DDD	8.00		
Theoretical chlorine	13.88		
Gamma isomer of BHC	2.00	14.18	Passed
DDT	8.00		
Aramite	4.25		
Captan	12.50		
DDD	8.00		
Theoretical chlorine	13.88		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC - DDT - ARAMITE - ZINEB

Maxwell Insecticide Company, Inc.

Maxwell Rose Dust

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate	6.00	6.66	
Theoretical chlorine	3.39	3.25	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate	6.00	6.61	
Theoretical chlorine	3.39	3.35	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate	6.00	6.29	
Theoretical chlorine	3.39	3.63	
Gamma isomer of BHC	1.00		Deficient
DDT	5.00		
Aramite	1.50		
Zinc ethylene bisdithiocarbamate	6.00	6.53	
Theoretical chlorine	3.39	3.10	

BHC - DDT - CAPTAN - FERBAM - SULFUR

California Spray-Chemical Corporation

Ortho Rose Dust (Contains Captan and Lindane)

Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.93	
Sulfur	30.00	30.80	
Theoretical chlorine	5.89	5.67	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.70	
Sulfur	30.00	32.74	
Theoretical chlorine	5.89	5.67	
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate	3.50	3.90	
Sulfur	30.00	28.90	
Theoretical chlorine	5.89	5.67	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC-DDT-CAPTAN-SULPHUR			
Carbola Chemical Company, Inc.			
Carbola Fruit Tree Spray			
Gamma isomer of BHC	0.50		Passed
DDT	7.00		
Captan	7.50		
Sulfur	33.00	32.98	
Theoretical chlorine	6.52	6.38	
BHC - DDT - FERBAM - SULFUR			
Rose Manufacturing Company			
Tri-Ogen Rose Dust			
Gamma isomer of BHC	0.50		Passed
DDT	5.00		
Ferric dimethyl dithiocarbamate	3.50	3.70	
Sulfur	20.00	19.85	
Theoretical chlorine	3.10	3.03	
BHC - DDT - MALATHION			
Olin Mathieson Chemical Corporation			
BHC-DDT Malathion Cotton Dust 3-5-5			
Gamma isomer of BHC	3.00	3.00	Deficient
DDT	5.00	6.48	
Malathion	5.00	3.78	
Taylor Chemical Company			
Superkill 3-5-5 M Cotton Dust			
Gamma isomer of BHC	3.00	2.96	Passed
DDT	5.00	6.00	
Malathion	5.00	4.80	
BHC - DDT - ORGANIC THIOCYANATES			
Esso Standard Oil Company			
Flit Fly and Mosquito Spray			
Gamma isomer of BHC	0.075		Present
DDT	1.75		
Thanite	1.00		
Theoretical chlorine	0.93	0.92	
BHC - DDT - PARATHION			
Davison Chemical Company			
Benny-Hex Cotton Dust 3-5-0 and 1% Parathion			
Gamma isomer of BHC	3.00	3.58	Passed
DDT	5.00	5.56	
Parathion	1.00	0.96	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corporation			
Mathieson 3-5-1 Cotton Dust			
Gamma isomer of BHC	3.00	3.13	Passed
DDT	5.00	5.50	
Parathion	1.00	1.25	
Mathieson 3-10-1 Cotton Dust			
Gamma isomer of BHC	3.00	3.30	Passed
DDT	10.00	10.90	
Parathion	1.00	1.07	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-10-2 Cotton Dust			
Gamma isomer of BHC	3.00	3.68	Passed
DDT	10.00	10.30	
Parathion	2.00	2.32	
BHC - DDT - ROTENONE			
Ralston Purina Company			
Purina Back Scratch			
Gamma isomer of BHC	0.20		Passed
DDT	22.00		
Rotenone	0.265	Present	
Theoretical chlorine	11.15	11.79	
Wilkie K-9 Products			
Wilkie K-9 Flea Powder			
Gamma isomer of BHC	1.00		Not Registered
DDT	5.00		
Rotenone	1.50	1.30	
Theoretical chlorine	3.23	3.35	
Gamma isomer of BHC	1.00		Not Registered
DDT	5.00		
Rotenone	1.50	1.54	
Theoretical chlorine	3.23	3.13	
Gamma isomer of BHC	1.00		Not Registered
DDT	5.00		
Rotenone	1.50	1.35	
Theoretical chlorine	3.23	3.12	
BHC - DDT - SULFUR			
Farmers Cooperative Exchange, Inc.			
FCX 3-5-40 BHC-DDT-Sulfur			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	5.69	
Sulfur	40.00	39.16	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
New Pomo-Green (for Roses)			
Gamma isomer of BHC	1.00		Passed
DDT	5.00		
Sulfur	62.00	67.77	
Theoretical chlorine	3.23	3.28	
Taylor Chemical Company			
Superkill 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.01	
Sulfur	40.00	41.80	
Superkill 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.57	Passed
DDT	10.00	10.40	
Sulfur	40.00	41.60	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	10.00	10.21	
Sulfur	40.00	43.22	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.13	Passed
DDT	10.00	10.95	
Sulfur	40.00	40.90	
BORON COMPOUNDS			
BORIC ACID			
Spindle City Chemical Company			
Doc Edmond's Roach Powder			
Boric acid	99.00	100.00	Passed
BORIC ACID - PIPERONYL CYCLONENE - PYRETHRINS			
Meadows Chemicals, Inc.			
Jaygol			
Boric acid	94.160	96.470	Passed
Piperonyl cyclonene	0.019	Present	
Pyrethrins	0.019	0.028	
SODIUM TETRABORATE			
Mahaffey Company			
Mahaffey's Roach Powder			
Sodium tetraborate decahydrate	60.00	82.40	Passed
do	60.00	70.18	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CALCIUM POLYSULFIDE-CALCIUM THIOSULFATE			
Taylor Chemical Company			
Superkill Lime Sulfur Solution			
Calcium polysulfide	29.00	30.38	Passed
Calcium thiosulfate	1.00	2.99	
Calcium polysulfide	29.00	31.58	Passed
Calcium thiosulfate	1.00	5.56	
CAPTAN			
California Spray-Chemical Corporation			
Orthocide 50 Wettable			
Captan	50.00	52.85	Passed
do	50.00	51.43	Passed
do	50.00	50.71	Passed
do	50.00	53.57	Passed
do	50.00	56.30	Passed
do	50.00	55.00	Passed
do	50.00	45.71	Deficient
Orthocide 75 Seed Protectant			
Captan	75.00	77.83	Passed
Stauffer Chemical Company			
Stauffer Captan 50-W			
Captan	50.00	50.71	Passed
do	50.00	52.14	Passed
do	50.00	50.00	Passed
CAPTAN-PARATHION			
California Spray-Chemical Corporation			
Ortho Peach Spray			
Captan	25.00	25.71	Passed
Parathion	7.50	8.88	
CHLORDANE			
Asgrow Home Garden Division			
Associated Seed Growers, Inc.			
Asgrow Chlordane Dust			
Chlordane	6.00	6.60	Passed
California Spray-Chemical Corporation			
Ortho-Klor 10 Chlordane Dust			
Chlordane	10.00	9.14	Deficient
do	10.00	9.00	Deficient
do	10.00	9.57	Passed
do	10.00	9.86	Passed
do	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 73% Chlordane Emulsion Concentrate			
Chlordane	73.00	69.19	Deficient
Carbola Chemical Company, Inc.			
Carbola 6% Chlordane Dust			
Chlordane	6.00	6.60	Passed
do	6.00	6.43	Passed
Diamond Black Leaf Products A Unit of Diamond Alkali Company			
5% Chlordane Dust			
Chlordane	5.00	4.79	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% Chlordane Dust			
Chlordane	5.00	4.86	Passed
do	5.00	4.93	Passed
do	5.00	5.50	Passed
50% Wettable Chlordane Powder			
Chlordane	50.00	49.28	Passed
do	50.00	49.28	Passed
do	50.00	48.57	Passed
Graham Chemical Company			
Red Star 50% Chlordane Wettable Powder			
Chlordane	50.00	49.64	Passed
do	50.00	50.71	Passed
Red Star Ant Dust			
Chlordane	6.00	7.12	Passed
do	6.00	7.37	Passed
Dr. Hess and Clark, Inc.			
Dr. Hess 6% Chlordane Dust			
Chlordane	6.00	6.69	Passed
do	6.00	5.83	Passed
do	6.00	6.34	Passed
Olin Mathieson Chemical Corporation			
Mathieson Chlordane 40% Powder			
Chlordane	40.00	36.00	Deficient
Parrott Chemical Company			
Lucky Strike Grub Master			
Chlordane	5.00	4.43	Deficient
do	5.00	5.14	Not Registered
			Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pearson and Company			
Pearson's 40% Chlordane Wettable Insecticide			
Chlordane	40.00	38.00	Passed
Quality Chemical Company			
Chlordane Emulsifiable Concentrate			
Chlordane	72.00	69.76	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko 10% Chlordane Dust			
Chlordane	10.00	10.14	Passed
O. M. Scott & Sons Company			
Cope			
Chlordane	8.00	13.48	Passed
Southern Agricultural Chemicals, Inc.			
10% Chlordane Dusting Powder			
Chlordane	10.00	9.86	Not Registered
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% Chlordane Dust			
Chlordane	5.00	4.89	Passed
SA-50 Brand 10% Chlordane Dust			
Chlordane	10.00	10.72	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Chlordane Dust			
Chlordane	6.00	6.26	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Chlordane Dust			
Chlordane	5.00	5.21	Passed
CHLORDANE - BHC			
Esso Standard Oil Company			
Flit Bug Killer			
Chlordane	2.00		Passed
Gamma isomer of BHC	0.05		
Theoretical chlorine	1.32	1.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE - BORIC ACID			
Heller Laboratories, Inc.			
\$1000 Guaranteed Roach Killer			
Chlordane	0.20	0.27	Passed
Boric acid	51.00	51.40	
Chlordane	0.20	0.19	Passed
Boric acid	51.00	52.93	
CHLORDANE - DDT			
Graham Chemical Company			
Red Star Ant Dust			
Chlordane	10.00		Deficient
DDT	5.00		
Theoretical chlorine	8.90	7.71	
CHLORDANE - DIELDRIN			
California Spray-Chemical Corporation			
Ortho Ant Powder			
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	1.80	
Chlordane	2.50		Deficient
Dieldrin	0.50		
Theoretical chlorine	1.88	1.68	
Chlordane	2.50		Passed
Dieldrin	0.50		
Theoretical chlorine	1.88	1.96	
Chlordane	2.50		Deficient
Dieldrin	0.50		
Theoretical chlorine	1.88	1.66	
CHLORDANE - MALATHION			
Pearson and Company			
Pearson's Waterbug and Roach Killer			
Chlordane	3.00	4.13	Passed
Malathion	5.00	4.75	
CHLORDANE - ORGANIC THIOCYANATES			
Swift and Company			
End-O-Pest ARC Dust			
Chlordane	8.00	7.60	Passed
Lethane 384 Special	1.00	Present	
Chlordane	8.00	7.80	Passed
Lethane 384 Special	1.00	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE - ORGANIC THIOCYANATES - PYRETHRINS			
Gulf Oil Corporation			
Gulf Roach and Ant Killer			
Chlordane	2.00	2.05	Passed
Organic thiocyanates	3.25	3.72	
Pyrethrins	0.19	0.18	
CHLORDANE - PIPERONYL BUTOXIDE - PYRETHRINS			
Amsco Chemical Company			
Hot Shot Bug Killer			
Chlordane	2.000	1.860	Deficient
Piperonyl butoxide	0.188	0.170	
Pyrethrins	0.075	0.096	
Chlordane	2.000	2.010	Passed
Piperonyl butoxide	0.188	0.185	
Pyrethrins	0.075	0.100	
Chlordane	2.000	2.030	Passed
Piperonyl butoxide	0.188	0.188	
Pyrethrins	0.075	0.128	
The Dill Company			
D-K Roach and Ant Killer			
Chlordane	2.00	2.02	Passed
Piperonyl butoxide	0.075	0.050	
Pyrethrins	0.015	0.040	
Chlordane	2.00	2.15	Passed
Piperonyl butoxide	0.075	0.070	
Pyrethrins	0.015	0.044	
Dixi Chemical Company			
Dixi Kill			
Chlordane	2.000	2.090	Passed
Piperonyl butoxide	0.115	0.077	
Pyrethrins	0.046	0.044	
Eagle Products Company			
Spray Kill			
Chlordane	2.000	1.93	Not Registered
Piperonyl butoxide	0.115	0.110	
Pyrethrins	0.046	0.049	
Ralston Purina Company			
Purina Roach Spray			
Chlordane	2.00	2.12	Passed
Piperonyl butoxide	0.10	0.11	
Pyrethrins	0.05	0.07	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Roach Spray (Continued)			
Chlordane	2.00	2.03	Passed
Piperonyl butoxide	0.10	0.11	
Pyrethrins	0.05	0.06	
CHLORDANE - PIPERONYL CYCLONENE - PYRETHRINS			
Boyle-Midway, Inc.			
Black Flag Insect Powder			
Chlordane	1.50	2.34	Passed
Piperonyl cyclonene	0.35	Present	
Pyrethrins	0.06	0.08	
Chlordane	1.50	2.14	Passed
Piperonyl cyclonene	0.35	Present	
Pyrethrins	0.06	0.14	
CHLORDANE - PYRETHRINS			
Boyle-Midway, Inc.			
Black Flag Insect Powder			
Chlordane	1.50	2.20	Passed
Pyrethrins	0.06	0.10	
Chlordane	1.50	2.40	Passed
Pyrethrins	0.06	0.062	
C-B Drug Company			
C-B Double Action Insect Spray			
Chlordane	2.00	2.27	Passed
Pyrethrins	0.034	0.07	
Gulf Oil Corporation			
Gulf Ant and Roach Bomb			
Chlordane	2.00	1.90	Passed
Pyrethrins	0.08	0.09	
COPPER			
Mike, Inc.			
101 Brand Tomato Dust			
Copper as metallic	7.00	7.53	Passed
Miller Chemical and Fertilizer Corporation			
Bor-Tox Copper Mixture			
Copper as metallic	12.75	12.61	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Copper Fungicide			
Copper as metallic	53.00	50.46	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
COPPER - NICOTINE			
Hammond Paint and Chemical Company			
Hammond's Kix for Roses			
Copper as metallic	3.05	3.86	Passed
Nicotine	5.00	Present	
Copper as metallic	3.05	4.21	Passed
Nicotine	5.00	Present	
COPPER - SULFUR			
Daly-Herring Company			
Dee Aitch Peanut Dust			
Copper as metallic	4.00	4.11	Passed
Sulfur	85.50	87.40	
2, 4-D			
American Chemical Paint Company			
2, 4-D Weed Dust			
Ethyl ester of 2, 4-D	2.00	3.53	Passed
do	2.00	3.42	Passed
Reason-Hill Corporation			
R-H Granular Weed Rhap-20			
Iso-octyl (2-ethyl hexyl) ester of 2, 4-D	30.12	34.48	Passed
Swift and Company			
End-O-Weed 2, 4-D Lawn Weed Killer			
Butoxy ethoxy propanol ester of 2, 4-D	22.40	23.71	Passed
2, 4-D and 2, 4, 5-T			
California Spray-Chemical Corporation			
Improved Weed-B-Gone			
Tetrahydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.86	13.82	
Tetrahydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.86	9.90	
Tetrahydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.86	9.89	
Tetrahydrofurfuryl ester of 2, 4-D	13.80		Passed
Tetrahydrofurfuryl ester of 2, 4, 5-T	6.60		
Theoretical phenoxyacetic acid	9.86	10.55	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
D-D			
The Dow Chemical Company			
Dow Telone, A Soil Fumigant			
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		58.84	
Farmers Cooperative Exchange, Inc.			
FCX Drench for Tobacco Beds			
Chlorinated C ₃ hydrocarbons	30.00		Passed
Total chlorine		16.85	
W. R. Peele Company, Inc.			
Pelco D-D Soil Fumigant			
Chlorinated C ₃ hydrocarbons	100.00		Passed
Total chlorine		55.23	
DDD			
Acme Fertilizer Company			
TDE Emulsion			
DDD	24.00	25.30	Passed
California Spray-Chemical Corporation			
Orthene 3 D 10 Dust			
DDD	10.00	9.57	Passed
do	10.00	10.72	Passed
Ortho TDE 2 Emulsive			
DDD	23.30	23.01	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 10% TDE Dust			
DDD	10.00	9.57	Passed
do	10.00	9.79	Passed
do	10.00	9.57	Passed
do	10.00	9.93	Passed
do	10.00	9.57	Passed
Carolina Chemicals, Inc.			
Flight Brand 10% Rhothane Dust			
DDD	10.00	9.86	Passed
Carter Insecticide and Chemical Company			
25% TDE Emulsion Tobacco Insect Killer			
DDD	25.00	23.90	Passed
do	25.00	24.16	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Coastal Chemical Corporation			
TDE Emulsion			
DDD	24.00	23.80	Passed
Daly-Herring Company			
Bacco 10% TDE Dust			
DDD	10.00	10.00	Passed
Bacco Spray Emulsifiable Concentrate			
DDD	23.76	21.62	Deficient
Bacco Spray Emulsifiable Concentrate			
DDD	25.00	24.70	Passed
Davison Chemical Company			
Naco TDE (DDD) Spray			
DDD	23.80	22.69	Passed
Diamond Black Leaf Products			
A Unit of Diamond Alkali Company			
Black Leaf 25% TDE Emulsifiable Concentrate			
DDD	25.00	25.68	Passed
do	25.00	25.41	Passed
Farmers Cooperative Exchange, Inc.			
FCX 10% TDE Dust			
DDD	10.00	9.86	Passed
do	10.00	10.43	Passed
do	10.00	10.00	Passed
do	10.00	9.72	Passed
do	10.00	9.50	Passed
do	10.00	10.14	Passed
do	10.00	9.79	Passed
do	10.00	9.72	Passed
do	10.00	9.57	Passed
do	10.00	9.86	Passed
do	10.00	9.86	Passed
do	10.00	9.64	Passed
Graham Chemical Company			
Graham's Red Star 10% "Rhothane" Dust			
DDD	10.00	9.29	Deficient
do	10.00	9.43	Deficient
do	10.00	10.00	Passed
do	10.00	10.36	Passed
do	10.00	9.64	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham's Red Star Emulsifiable Concentrate 25% TDE			
DDD	25.00	26.04	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% TDE Dust			
DDD	10.00	9.64	Passed
do	10.00	10.00	Passed
do	10.00	9.79	Passed
do	10.00	9.72	Passed
25% Rhothane Emulsion Concentrate			
DDD	25.00	24.36	Passed
Molony Fertilizer Company			
10% TDE Dust			
DDD	10.00	9.86	Passed
Olin Mathieson Chemical Corporation			
Mathieson Rhothane (TDE) Dust			
DDD	10.00	9.22	Deficient
do	10.00	9.57	Passed
do	10.00	10.85	Passed
do	10.00	10.14	Passed
Mathieson TDE (DDD) 25% Emulsifiable Concentrate			
DDD	25.00	25.40	Passed
do	25.00	25.36	Passed
do	25.00	22.48	Deficient
W. R. Peele Company, Inc.			
Pelco Rhothane Tobacco Dust			
DDD	10.00	9.93	Passed
do	10.00	9.86	Passed
do	10.00	10.72	Passed
do	10.00	10.57	Passed
do	10.00	10.86	Passed
do	10.00	11.00	Passed
do	10.00	9.72	Passed
do	10.00	10.93	Passed
do	10.00	10.00	Passed
do	10.00	9.57	Passed
do	10.00	8.86	Deficient
do	10.00	8.72	Deficient
do	10.00	9.72	Passed
do	10.00	10.00	Passed
do	10.00	17.58	Excessive Active Ingredient
Pelco Tobacco Spray Emulsifiable Concentrate			
DDD	25.00	24.20	Passed
do	25.00	24.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco Tobacco Spray Emulsifiable Concentrate (Continued)			
DDD	25.00	23.56	Deficient
do	25.00	23.58	Deficient
do	25.00	23.27	Deficient
do	25.00	23.58	Deficient
Planters Chemical Corporation			
Planters 10% TDE Dust			
DDD	10.00	10.00	Passed
do	10.00	10.07	Passed
do	10.00	10.43	Passed
Quality Chemical Company			
Tobacco Spray Rhothane Emulsible Concentrate			
DDD	23.98	23.44	Passed
do	23.98	23.80	Passed
do	23.98	23.45	Passed
do	23.96	23.70	Passed
do	23.98	23.46	Passed
Quality Chemical Corporation			
10% TDE Dust			
DDD	10.00	9.43	Deficient
do	10.00	9.86	Passed
do	10.00	10.50	Passed
do	10.00	10.22	Passed
do	10.00	9.64	Passed
Roanoke Chowan Chemical Corporation			
10% TDE Dust			
DDD	10.00	10.00	Passed
do	10.00	9.50	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Rhothane Spray Concentrate			
DDD	23.80	24.30	Passed
Swift and Company			
Swift's Gold Bear Brand Insecticide Dust H 10			
DDD	10.00	9.93	Passed
Swift's Gold Bear Brand TDE H-2-E			
DDD	23.60	24.71	Passed
Taylor Chemical Company			
Superkill Tobacco Dust			
DDD	10.00	10.22	Passed
do	10.00	10.36	Passed
do	10.00	10.86	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
TDE Emulsifiable Concentrate			
DDD	23.90	24.02	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 10%—3 D's Dust (Contains DDD—TDE)			
DDD	10.00	10.29	Passed
do	10.00	10.14	Passed
DDD - ALLETHRIN - ORGANIC THIOCYANATES			
John C. Stalfort and Sons (Now: Stalfort Pressure-Pak, Inc.)			
Plee-Zing Aerosol Insect Bomb			
DDD	2.000	4.45	Excessive Active Ingredient
Allethrin	0.125	Present	
Beta butoxy beta thiocyanodiethyl ether	1.000	Present	
DDD - COPPER			
Graham Chemical Company			
Graham's Red Star Tomato Dust			
DDD	5.00	5.13	Passed
Copper as metallic	7.00	7.87	
DDD - PARATHION			
California Spray-Chemical Corporation			
Ortho Parathion-TDE 1-10 Dust			
DDD	10.00	10.00	Passed
Parathion	1.00	1.24	
Cape Fear Chemicals, Inc.			
Tiger Brand Triple Quick Tobacco Dust			
DDD	10.00	10.00	Passed
Parathion	1.00	1.17	
DDD	10.00	9.43	Deficient
Parathion	1.00	1.20	
Molony Fertilizer Company			
Lightning Brand 1-10 Tobacco Dust			
DDD	10.00	10.29	Passed
Parathion	1.00	1.05	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corporation			
Mathieson Tobacco Dust 10% Rhothane 1% Parathion			
DDD	10.00	10.72	Passed
Parathion	1.00	1.03	
W. R. Peele Company, Inc.			
Pelco Tobacco Dust 10% TDE-1% Parathion			
DDD	10.00	10.43	Passed
Parathion	1.00	1.12	
Southern Agricultural Chemicals, Inc.			
Royal Brand 10% Rhothane Dust with 1% Parathion			
DDD	10.00	10.00	Passed
Parathion	1.00	1.10	
DDT			
Acme Quality Paints, Inc.			
Acme 5% DDT Dust			
DDT	5.00	5.50	Passed
do	5.00	5.54	Passed
do	5.00	5.21	Passed
Acme Dura-Dust # 50			
DDT	50.00	48.57	Passed
do	50.00	47.86	Passed
Allied Chemical and Dye Corporation			
General Chemical Division			
Genitox S-50 DDT 50% Wettable Powder			
DDT	50.00	48.21	Passed
Boyle-Midway, Inc.			
Black Flag Insect Spray with 5% DDT			
DDT	5.00	5.02	Passed
California Spray-Chemical Corporation			
Persisto 10 Dust 10% DDT			
DDT	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	9.72	Passed
do	10.00	10.07	Passed
do	10.00	9.17	Deficient
Persisto 50 Wettable 50% DDT			
DDT	50.00	52.85	Passed
do	50.00	46.43	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 5% DDT Dust			
DDT	5.00	10.86	Excessive Active Ingredient
do	5.00	5.36	Passed
do	5.00	5.14	Passed
do	5.00	5.43	Passed
do	5.00	4.86	Passed
do	5.00	5.07	Passed
do	5.00	5.21	Passed
do	5.00	5.00	Passed
do	5.00	3.29	Deficient
do	5.00	4.71	Deficient
Tiger Brand 10% DDT Dust			
DDT	10.00	9.72	Passed
do	10.00	9.72	Passed
do	10.00	9.72	Passed
do	10.00	9.57	Passed
Tiger Brand 25% DDT Emulsion Concentrate			
DDT	25.00	24.04	Passed
do	25.00	24.01	Passed
Carbola Chemical Company, Inc.			
CCC 5% DDT Garden Dust			
DDT	5.00	5.50	Passed
do	5.00	5.14	Passed
CCC Powder (contains 10% DDT)			
DDT	10.00	10.72	Passed
Carter Insecticide and Chemical Company			
Carolina 25% DDT Emulsion Concentrate			
DDT	25.00	23.58	Deficient
Coastal Chemical Corporation			
DDT Emulsion			
DDT	25.00	23.94	Passed
Daly-Herring Company			
Dee Aitch 5% DDT Dust			
DDT	5.00	4.60	Deficient
Davison Chemical Company			
Naco 5% DDT Dust			
DDT	5.00	4.50	Deficient
do	5.00	4.44	Deficient
do	5.00	4.71	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Naco 10% DDT Dust			
DDT	10.00	10.00	Passed
Diamond Black Leaf Products A Unit of Diamond Alkali Company			
Black Leaf 10% DDT Dust			
DDT	10.00	9.86	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5% DDT Dust			
DDT	5.00	4.86	Passed
do	5.00	5.29	Passed
do	5.00	5.00	Passed
do	5.00	4.86	Passed
do	5.00	4.93	Passed
do	5.00	4.89	Passed
do	5.00	5.00	Passed
do	5.00	4.93	Passed
do	5.00	4.71	Deficient
FCX 10% DDT Dust			
DDT	10.00	9.86	Passed
do	10.00	9.57	Passed
do	10.00	9.86	Passed
do	10.00	9.72	Passed
do	10.00	9.57	Passed
do	10.00	9.93	Passed
do	10.00	9.86	Passed
FCX 50% DDT Wettable Powder			
DDT	50.00	50.71	Passed
do	50.00	50.00	Passed
Graham Chemical Company			
Graham Red Star Agricultural 5% DDT Dust			
DDT	5.00	4.50	Deficient
do	5.00	5.36	Passed
do	5.00	4.82	Passed
do	5.00	5.21	Passed
Gulf Oil Corporation			
Gulf Trak Moth Spray			
DDT	6.00	5.91	Passed
do	6.00	6.00	Passed
Insect Control Sales and Service			
"Insko" 50% DDT Wettable			
DDT	50.00	46.77	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
O. E. Linck Company, Inc.			
Tat 35% DDT Solution			
DDT	35.00	35.50	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% DDT Dust			
DDT	10.00	9.57	Passed
do	10.00	9.64	Passed
Maxwell 50% Wettable DDT			
DDT	50.00	52.14	Passed
do	50.00	49.28	Passed
do	50.00	48.57	Passed
Mike, Inc.			
101 Brand 5% DDT Dust			
DDT	5.00	5.11	Not Registered
Olin Mathieson Chemical Corporation			
Mathieson DDT 5% Dust			
DDT	5.00	4.79	Passed
do	5.00	5.07	Passed
do	5.00	5.14	Passed
do	5.00	4.86	Passed
Mathieson DDT 10% Dust			
DDT	10.00	9.86	Passed
do	10.00	9.57	Passed
Mathieson DDT 50% Wettable Powder			
DDT	50.00	50.00	Passed
W. R. Peele Company, Inc.			
Pelco 5% DDT Dust			
DDT	5.00	4.75	Passed
do	5.00	4.86	Passed
do	5.00	4.93	Passed
do	5.00	4.66	Deficient
do	5.00	4.71	Deficient
Pelco 10% DDT Dust			
DDT	10.00	9.57	Passed
do	10.00	9.50	Passed
do	10.00	10.79	Passed
Pennsylvania Salt Manufacturing Company			
Knox-Out Insecticide Powder 10% DDT			
DDT	10.00	9.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Penco DDT W-50			
DDT	50.00	47.50	Passed
Planters Chemical Corporation			
Planters 10% DDT Dust			
DDT	10.00	9.57	Passed
do	10.00	9.50	Passed
Quality Chemical Company			
DDT Emulsible Concentrate			
DDT	23.98	23.66	Passed
Quality Chemical Corporation			
5% DDT Dust			
DDT	5.00	4.75	Passed
do	5.00	5.07	Passed
do	5.00	4.80	Passed
do	5.00	4.79	Passed
do	5.00	4.50	Deficient
do	5.00	4.51	Deficient
10% DDT Dust			
DDT	10.00	9.50	Passed
do	10.00	9.50	Passed
do	10.00	9.43	Deficient
do	10.00	9.00	Deficient
Ralston Purina Company			
Purina DDT Insecticide (75% DDT Wettable Powder)			
DDT	75.00	73.91	Passed
Sears, Roebuck and Company			
Cross Country Insect Spray (Containing 50% DDT)			
DDT	50.00	50.35	Passed
Smith Seed & Feed Company			
Old Belt Tobacco Flea Beetle Dust (Containing 5% DDT)			
DDT	5.00	4.64	Deficient
do	5.00	5.00	Passed
do	5.00	4.80	Passed
Southern Agricultural Chemicals, Inc.			
Royal 10% DDT Dust			
DDT	10.00	10.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% DDT Dust			
DDT	5.00	5.57	Passed
do	5.00	5.50	Passed
do	5.00	5.57	Passed
SA-50 Brand 10% DDT Dust			
DDT	10.00	9.86	Passed
do	10.00	9.50	Passed
do	10.00	9.86	Passed
do	10.00	9.72	Passed
do	10.00	9.93	Passed
do	10.00	10.29	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	10.22	Passed
do	10.00	9.43	Deficient
do	10.00	9.29	Deficient
do	10.00	9.22	Deficient
do	10.00	10.72	Passed
SA-50 Brand Wettable DDT Spray Concentrate			
DDT	50.00	48.57	Passed
Swift and Company			
Gold Bear Brand 50% DDT Wettable			
DDT	50.00	49.28	Passed
Taylor Chemical Company			
Superkill 25% DDT Solution (Miscible)			
DDT	25.00	24.20	Passed
do	25.00	24.06	Passed
Superkill 50% DDT Powder-Wettable			
DDT	50.00	47.86	Passed
Tobacco By-Products and Chemical Corporation (Now: Diamond Black Leaf Products A Unit of Diamond Alkali Company)			
Black Leaf 50% DDT Wettable Powder			
DDT	50.00	49.28	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 25% DDT Emulsifiable			
DDT	25.00	24.42	Passed
Security Brand 50% DDT Wettable			
DDT	50.00	49.64	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT - ALLETHRIN - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE			
Boyle-Midway, Inc.			
Fly Ded Insect Killer			
DDT	2.00	2.26	Passed
Allethrin	0.10	Present	
Beta butoxy beta thiocyanodiethyl ether	1.00	2.55	Passed
Piperonyl butoxide	0.25	0.24	
D & A Company, Inc.			
Pow Insecticide Push Button Insect Killer			
DDT	2.00	1.92	Passed
Allethrin	0.10	Present	
Thanite	1.00	Present	Passed
Piperonyl butoxide	0.25	0.20	
DDT	2.00	2.01	Passed
Allethrin	0.10	Present	
Thanite	1.00	Present	Passed
Piperonyl butoxide	0.25	0.20	
DDT - CAPTAN - MALATHION			
Acme Quality Paints, Inc.			
Acme Rose Dust or Spray			
DDT	5.00		Deficient
Captan	7.00		
Malathion	4.00	3.60	Deficient
Theoretical chlorine	4.98	5.31	
DDT	5.00		Passed
Captan	7.00		
Malathion	4.00	4.47	Passed
Theoretical chlorine	4.98	5.32	
Swift and Company			
End-O-Pest Rose Dust			
DDT	5.00		Passed
Captan	7.50		
Malathion	4.50	5.01	Deficient
Theoretical chlorine	5.15	5.32	
DDT	5.00		Deficient
Captan	7.50		
Malathion	4.50	3.95	Deficient
Theoretical chlorine	5.15	5.31	
DDT - COPPER			
Carbola Chemical Company, Inc.			
Carbola 3-7 Dust			
DDT	3.00	3.00	Passed
Copper as metallic	7.00	6.81	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Davison Chemical Company			
Naco 7% Copper and 3% DDT Dust			
DDT	3.00	2.82	Deficient
Copper as metallic	7.00	6.68	
DDT	3.00	3.00	Deficient
Copper as metallic	7.00	6.51	
Farmers Cooperative Exchange, Inc.			
FCX 7-3 Potato and Tomato Dust			
DDT	3.00	2.85	Passed
Copper as metallic	7.00	7.05	
FCX 7-5 Potato and Tomato Dust			
DDT	5.00	4.71	Deficient
Copper as metallic	7.00	6.15	
Florida Agricultural Supply Company			
Fasco Copper-DDT Dust 14-5			
DDT	5.00	5.00	Passed
Copper as metallic	7.30	7.17	
Miller Chemical and Fertilizer Corporation			
Miller Potato-Tomato and Celery Dust or Spray			
DDT	3.00	3.27	Passed
Copper as metallic	7.00	7.23	
Olin Mathieson Chemical Corporation			
5-7 Potato and Tomato Dust			
DDT	5.00	5.32	Passed
Copper as metallic	7.00	6.95	
Quality Chemical Corporation			
5-7 Potato and Tomato Dust			
DDT	5.00	5.29	Passed
Copper as metallic	7.00	7.47	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Potato Dust with 5% DDT			
DDT	5.00	5.57	Passed
Copper as metallic	6.50	6.45	
DDT	5.00	5.46	Passed
Copper as metallic	6.50	6.56	
DDT	5.00	4.93	Passed
Copper as metallic	6.50	6.58	
DDT	5.00	5.21	Passed
Copper as metallic	6.50	6.65	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand Potato Dust with 5% DDT (Continued)			
DDT	5.00	4.93	Passed
Copper as metallic	6.50	6.54	
Swift and Company			
Gold Bear Brand DDT-Copper Dust			
DDT	3.00	3.00	Deficient
Copper as metallic	7.00	5.72	
DDT	3.00	3.30	Passed
Copper as metallic	7.00	6.71	
DDT	3.00	3.27	Passed
Copper as metallic	7.00	8.63	
Taylor Chemical Company			
Superkill Tomato Dust			
DDT	5.00	4.79	Passed
Copper as metallic	6.00	6.13	
DDT - COPPER - SULFUR			
Daly-Herring Company			
Dee Aitch 4% Metallic Copper-5% DDT-74%			
Sulfur Peanut Dust			
DDT	5.00	5.14	Passed
Copper as metallic	4.00	3.82	
Sulfur	74.00	75.57	
DDT - FERBAM			
California Spray-Chemical Corporation			
Ortho Custom Mixture Ferbam-DDT 11.4-3 Dust			
DDT	3.00	3.61	Passed
Ferric dimethyl dithiocarbamate	11.40	14.23	
Champion Chemical Corporation			
Champion Ferbam-DDT Dust			
DDT	3.00	3.00	Not Registered
Ferric dimethyl dithiocarbamate	11.40	12.14	
Farmers Cooperative Exchange, Inc.			
FCX 11.4% Ferbam and 5% DDT Dust			
DDT	5.00	4.86	Passed
Ferric dimethyl dithiocarbamate	11.40	11.51	
DDT	5.00	5.07	Passed
Ferric dimethyl dithiocarbamate	11.40	12.14	
DDT	5.00	4.79	Passed
Ferric dimethyl dithiocarbamate	11.40	12.14	
DDT	5.00	5.14	Passed
Ferric dimethyl dithiocarbamate	11.40	12.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corporation			
Mathieson Ferbam-DDT Dust			
DDT	3.00	3.55	Passed
Ferric dimethyl dithiocarbamate	11.40	11.93	
W. R. Peele Company, Inc.			
Pelco 15% Fermate 3% DDT Dust			
DDT	3.00	2.93	Passed
Ferric dimethyl dithiocarbamate	11.40	12.98	
DDT	3.00	3.07	Passed
Ferric dimethyl dithiocarbamate	11.40	11.72	
DDT	3.00	2.93	Passed
Ferric dimethyl dithiocarbamate	11.40	11.73	
DDT	3.00	3.00	Passed
Ferric dimethyl dithiocarbamate	11.40	12.35	
Roanoke Chowan Chemical Corporation			
Ferbam-DDT Dust			
DDT	3.00	3.22	Passed
Ferric dimethyl dithiocarbamate	11.40	11.31	
DDT - FERBAM - SULFUR			
Farmers Cooperative Exchange, Inc.			
FCX Rose Dust (Combination Insecticide and Fungicide)			
DDT	5.00	4.86	Passed
Ferric dimethyl dithiocarbamate	7.60	7.77	
Sulfur	75.00	74.25	
DDT	5.00	4.79	Passed
Ferric dimethyl dithiocarbamate	7.00	6.70	
Sulfur	70.00	76.30	
DDT	5.00	5.43	Passed
Ferric dimethyl dithiocarbamate	7.60	7.95	
Sulfur	75.00	72.20	
DDT - MALATHION - SULFUR			
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
Kolo Fruit Tree Dust or Spray			
DDT	7.50	7.54	Passed
Malathion	4.00	4.72	
Sulfur	52.00	53.53	
DDT - METHYL PARATHION			
Farmers Cooperative Exchange, Inc.			
FCX 2½% Methyl Parathion—5% DDT Dust			
DDT	5.00	4.93	Passed
Methyl parathion	2.50	3.01	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corporation			
Methyl Parathion—DDT Cotton Dust 2.5-5			
DDT	5.00	4.93	Passed
Methyl parathion	2.50	2.82	
Taylor Chemical Company			
Superkill 2½ P-10 Dust			
DDT	10.00	10.72	Passed
Methyl parathion	2.50	2.52	
DDT - ORGANIC THIOCYANATES			
Boyle-Midway, Inc.			
Fly Ded Insect Spray			
DDT	5.00	5.30	Passed
Beta butoxy beta thiocyanodiethyl ether	0.50	Present	
Black Flag Insect Spray 5% DDT			
DDT	5.00	5.30	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.16	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.25	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	4.91	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.23	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
DDT	5.00	5.67	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
Rigo Manufacturing Company, Inc.			
Kill-Ko Super Strength plus 5% DDT			
DDT	5.00	4.93	Passed
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	1.79		
Beta butoxy beta thiocyanodiethyl ether	1.18		
Theoretical nitrogen	0.16	0.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Kill-Ko Flea and Insect Powder			
DDT	10.00	8.29	Deficient
Beta beta dithiocyanodiethyl ether	0.50	Present	
Kill-Ko Special 25% DDT Concentrate			
DDT	25.00	24.84	Passed
Beta butoxy beta thiocyanodiethyl ether	1.07	Present	
DDT - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE			
Boyle-Midway, Inc.			
Fly Ded Insect Killer			
DDT	2.00	2.32	Passed
Beta butoxy beta thiocyanodiethyl ether	1.00	Present	
Piperonyl butoxide	0.25	0.19	
DDT - ORGANIC THIOCYANATES - PIPERONYL BUTOXIDE - PYRETHRINS			
Rigo Manufacturing Company			
Kill-Ko Quick Kill Insect Killer			
DDT	0.50	0.78	Passed
Beta butoxy beta thiocyanodiethyl ether	1.50	Present	
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.89	Present	
Piperonyl butoxide	0.30	0.27	
Pyrethrins	0.03	0.05	
DDT - ORGANIC THIOCYANATES - SULFUR			
Dr. Salsbury's Laboratories			
Dr. Salsbury's Louse Powder			
DDT	2.00	2.07	Passed
Beta butoxy beta thiocyanodiethyl ether	2.10	Present	
Sulfur	30.00	29.92	
DDT	2.00	2.60	Passed
Beta butoxy beta thiocyanodiethyl ether	1.35	Present	
Sulfur	30.00	30.68	
DDT - PARATHION - SULFUR			
California Spray-Chemical Corporation			
Ortho Persistophos-S 5-1.5-25 Dust			
DDT	5.00	5.50	Passed
Parathion	1.50	1.57	
Sulfur	25.00	25.51	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho Persistophos-S 5-1.5-25 Dust (Continued)			
DDT	5.00	3.50	Deficient
Parathion	1.50	1.94	
Sulfur	25.00	28.23	
DDT	5.00	4.93	Deficient
Parathion	1.50	1.53	
Sulfur	25.00	20.74	
DDT	5.00	4.64	Deficient
Parathion	1.50	1.66	
Sulfur	25.00	26.60	
Florida Agricultural Supply Company			
Fasco Parathion DDT—Suldust 1½-10-30			
DDT	10.00	9.64	Passed
Parathion	1.50	1.73	
Sulfur	30.00	30.12	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1½% Parathion Dust with 5% DDT			
DDT	5.00	4.93	Passed
Parathion	1.50	1.94	
Sulfur	25.00	27.51	
DDT	5.00	5.57	Passed
Parathion	1.50	1.98	
Sulfur	25.00	27.00	
DDT	5.00	5.61	Passed
Parathion	1.50	1.87	
Sulfur	25.00	25.90	
DDT	5.00	4.92	Passed
Parathion	1.50	1.69	
Sulfur	25.00	26.05	
DDT	5.00	5.04	Passed
Parathion	1.50	2.02	
Sulfur	25.00	25.51	
DDT	5.00	5.04	Passed
Parathion	1.50	2.25	
Sulfur	25.00	24.30	
DDT	5.00	5.00	Passed
Parathion	1.50	1.92	
Sulfur	25.00	28.12	
DDT	5.00	5.00	Passed
Parathion	1.50	1.89	
Sulfur	25.00	27.37	
DDT	5.00	5.00	Passed
Parathion	1.50	1.89	
Sulfur	25.00	27.56	
DDT	5.00	5.25	Passed
Parathion	1.50	1.89	
Sulfur	25.00	27.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT - PIPERONYL BUTOXIDE - PYRETHRINS			
United Cooperatives, Inc.			
(Now: Farmers Cooperative Exchange, Inc.)			
Unico Household Spray			
DDT	0.25	0.24	Passed
Piperonyl butoxide	0.20	0.19	
Pyrethrins	0.02	0.03	
DDT - PYRETHRINS			
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Flea and Tick Powder			
DDT	10.00	9.00	Deficient
Pyrethrins	0.50	0.37	
DDT	10.00	10.00	Passed
Pyrethrins	0.50	0.48	
DDT	10.00	10.28	Passed
Pyrethrins	0.50	0.43	
DDT	10.00	9.93	Passed
Pyrethrins	0.50	0.41	
DDT	10.00	9.86	Passed
Pyrethrins	0.50	0.46	
DDT	10.00	10.72	Passed
Pyrethrins	0.50	0.48	
DDT	10.00	9.86	Passed
Pyrethrins	0.50	0.40	
DDT	10.00	9.57	Passed
Pyrethrins	0.50	0.39	
DDT	10.00	9.50	Passed
Pyrethrins	0.50	0.43	
DDT	10.00	9.72	Passed
Pyrethrins	0.50	0.51	
DDT	10.00	9.72	Passed
Pyrethrins	0.50	0.40	
DDT	10.00	9.86	Passed
Pyrethrins	0.50	0.53	
The Pfeiffer Company			
Killall Insecticide Powder			
DDT	10.00	10.72	Passed
Pyrethrins	0.08	0.13	
DDT - SULFUR			
W. R. Peele Company, Inc.			
Pelco Peanut Dust			
DDT	5.00	5.18	Passed
Sulfur	83.00	84.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DIELDRIN			
Prentiss Drug and Chemical Company			
Prentox 1.5 Dieldrin Emulsifiable Concentrate			
Dieldrin	17.60	17.51	Not Registered
Quality Chemical Corporation			
Dieldrin Emulsifiable Concentrate			
Dieldrin	19.90	21.27	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Dieldrin Granules			
Dieldrin	5.00	5.07	Passed
DIPTEREX			
Chemagro Corporation			
Dipterex Sugar Bait Fly Killer			
O, O-dimethyl-1-hydroxy 2, 2, 2- trichloroethyl phosphonate	1.00	1.10	Passed
do	1.00	1.15	Passed
Dr. Hess and Clark, Inc.			
Dr. Hess Dry Bait Fly Killer			
O, O-dimethyl-1-hydroxy 2, 2, 2- trichloroethyl phosphonate	1.00	1.10	Passed
ENDRIN			
California Spray-Chemical Corporation			
Ortho Endrin 1.5 Dust			
Endrin	1.50	1.87	Passed
Ortho Endrin 1.6 Emulsive			
Endrin	18.60	19.45	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 1½% Endrin Dust			
Endrin	1.50	1.60	Passed
Tiger Brand Emulsifiable Concentrate			
Endrin	19.50	20.59	Passed
do	19.50	19.76	Passed
Carter Insecticide and Chemical Company			
Carolina Brand 1½% Endrin Dust			
Endrin	1.50	1.52	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Endrin Emulsible Concentrate			
Endrin	19.50	18.72	Passed
do	19.50	18.97	Passed
Coastal Chemical Corporation			
Endrin Emulsible Concentrate			
Endrin	19.50	22.44	Passed
do	19.50	19.25	Passed
Daly-Herring Company			
Dee Aitch Endrin Emulsible Concentrate			
Endrin	19.50	19.90	Passed
Davison Chemical Company			
Naco 1.5% Endrin Dust			
Endrin	1.50	1.60	Passed
Naco 2% Endrin Dust			
Endrin	2.00	2.27	Passed
Diamond Black Leaf Products			
A Unit of Diamond Alkali Company			
Black Leaf Endrin Emulsifiable Concentrate			
Endrin	19.00	21.89	Passed
Farmers Cooperative Exchange, Inc.			
FCX 1.5% Endrin Dust			
Endrin	1.50	2.03	Passed
FCX Endrin Concentrate			
Endrin	18.90	19.91	Passed
do	18.90	19.96	Passed
Graham Chemical Company			
Red Star Endrin Emulsifiable Concentrate			
Endrin	19.50	20.19	Passed
do	19.50	20.61	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1½% Endrin Dust			
Endrin	1.50	1.66	Passed
do	1.50	1.73	Passed
Maxwell Emulsifiable Concentrate			
Endrin	19.50	20.07	Passed
do	19.50	21.93	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Molony Fertilizer Company			
Lightening Brand Dust 1½% Endrin			
Endrin	1.50	1.40	Passed
do	1.50	1.45	Passed
Olin Mathieson Chemical Corporation			
Endrin 1.6 lb. Emulsifiable Concentrate			
Endrin	18.48	19.97	Passed
do	18.48	20.60	Passed
do	18.48	21.08	Passed
W. R. Peele Company, Inc.			
Pelco 1% Endrin Dust			
Endrin	1.00	0.98	Passed
do	1.00	1.23	Passed
Pelco 1½% Endrin Dust			
Endrin	1.50	1.69	Passed
do	1.50	1.50	Passed
Pelco Endrin Emulsifiable Concentrate			
Endrin	19.50	18.67	Passed
do	19.50	21.00	Passed
do	19.50	20.45	Passed
do	19.50	18.63	Passed
do	19.50	19.94	Passed
Planters Chemical Corporation			
Planters 1½% Endrin Dust			
Endrin	1.50	1.66	Passed
do	1.50	1.66	Passed
do	1.50	1.63	Passed
Planters Endrin Emulsible Concentrate			
Endrin	19.50	19.36	Passed
do	19.50	19.22	Passed
do	19.50	18.60	Passed
Quality Chemical Company			
Endrin Emulsible Concentrate			
Endrin	19.50	20.08	Passed
do	19.50	19.12	Passed
do	19.50	18.78	Passed
do	19.50	18.94	Passed
do	19.50	19.21	Passed
do	19.50	20.21	Passed
do	19.50	18.67	Passed
do	19.50	17.56	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corporation			
1½% Endrin Dust			
Endrin	1.50	1.76	Passed
do	1.50	1.66	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 2% Endrin Dust			
Endrin	2.00	2.30	Passed
Royal Brand Endrin Emulsifiable Concentrate			
Endrin	19.50	20.04	Passed
Swift and Company			
Gold Bear Brand Insecticide Dust E 1.5			
Endrin	1.50	1.90	Passed
Taylor Chemical Company			
Superkill 1½% Endrin Dust			
Endrin	1.50	1.76	Passed
Virginia-Carolina Chemical Corporation (Now: Diamond Black Leaf Products A Unit of Diamond Alkali Company)			
Black Leaf 1½% Endrin Dust			
Endrin	1.50	1.73	Passed
FERBAM			
California Spray-Chemical Corporation			
Ortho Nu-Leaf 15 Dust			
Ferric dimethyl dithiocarbamate	11.40	8.79	Deficient
do	11.40	10.89	Passed
Nu-Leaf Black Fungicide			
Ferric dimethyl dithiocarbamate	76.00	78.96	Passed
do	76.00	75.71	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	12.14	Passed
do	11.40	11.73	Passed
do	11.40	12.14	Passed
Daly-Herring Company			
Dee Aitch 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Davison Chemical Company			
Naco Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.72	Passed
Farmers Cooperative Exchange, Inc.			
FCX Ferbam Dust No. 10			
Ferric dimethyl dithiocarbamate	11.40	11.93	Passed
do	11.40	11.51	Passed
do	11.40	11.93	Passed
Graham Chemical Company			
Red Star Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.09	Passed
do	11.40	12.35	Passed
do	11.40	12.56	Passed
H and M Chemical Company, Inc.			
"Mo-Di" Ferbam Dust No. 15			
Ferric dimethyl dithiocarbamate	11.40	11.73	Passed
do	11.40	12.11	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	12.77	Passed
Olin Mathieson Chemical Corporation			
Mathieson Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	13.19	Passed
W. R. Peele Company, Inc.			
Pelco 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.51	Passed
do	11.40	13.40	Passed
do	11.40	12.75	Passed
Taylor Chemical Company			
Superkill 11.4% Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.30	Passed
Tobacco By-Products and Chemical Corp. (Now: Diamond Black Leaf Products A Unit of Diamond Alkali Company)			
Black Leaf 15% Fermate Dust			
Ferric dimethyl dithiocarbamate	11.40	12.11	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FLUORINE COMPOUNDS			
SODIUM ALUMINUM FLUOSILICATE			
Zonite Products Corporation (Now: Chemway Corporation)			
Larvex Finger-Tip Spray			
Sodium aluminum fluosilicate	0.52	0.55	Passed
SODIUM FLUORIDE			
Ralston Purina Company			
Purina Lice Powder			
Sodium fluoride	35.00	38.10	Passed
SODIUM FLUORIDE SODIUM FLUOSILICATE - PYRETHRINS			
Wonder Products Company			
Wonder Roach Powder			
Sodium fluoride	47.50		Passed
Sodium fluosilicate	1.00		
Pyrethrins	0.25	0.27	
Theoretical fluorine	22.10	21.39	
Sodium fluoride	47.50		Passed
Sodium fluosilicate	1.00		
Pyrethrins	0.25	0.25	
Theoretical fluorine	22.10	21.01	
Sodium fluoride	47.50		Passed
Sodium fluosilicate	1.00		
Pyrethrins	0.25	0.29	
Theoretical fluorine	22.10	22.06	
Sodium fluoride	47.50		Passed
Sodium fluosilicate	1.00		
Pyrethrins	0.25	0.28	
Theoretical fluorine	22.10	21.39	
SODIUM FLUORIDE - NICOTINE PHENOL - SULFUR			
C. U. McClellan Laboratories Corporation			
Sodium fluoride	5.96	5.72	Not Registered
Nicotine	0.12	Present	
Phenol	1.71	Present	
Sulfur	54.65	56.55	
FUMARIN			
McCroy Wholesale Company			
Doc McCroy's Special Bona Bait			
Fumarin	0.025	0.025	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Independent Exterminating Company of N. C.			
Inexco Rat and Mouse Bait			
Fumarin	0.025	0.031	Not Registered
Sanitation Products Company			
Bait Tox Ready Mix Rat Bait			
Fumarin	0.025	0.047	Passed
do	0.025	0.033	Passed
S. C. Wells and Company, Inc.			
Rough On Rats (Ready Mixed Bait)			
Fumarin	0.025	0.044	Passed
do	0.025	0.033	Passed
HEPTACHLOR			
California Spray-Chemical Corporation			
Ortho Heptachlor 2.5 Dust			
Heptachlor (Technical)	3.47	3.53	Not Registered
Farmers Cooperative Exchange, Inc.			
FCX Heptachlor Emulsifiable Concentrate			
Heptachlor (Technical)	32.20	31.59	Passed
do	32.20	31.20	Passed
Graham Chemical Company			
Red Star Heptachlor 2 E Emulsifiable			
Heptachlor (Technical)	32.51	30.02	Deficient
do	32.51	30.86	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Heptachlor Cotton Dust 2½-0-0			
Heptachlor (Technical)	3.47	3.70	Passed
Maxwell Heptachlor 2 E Emulsifiable Concentrate			
Heptachlor (Technical)	32.51	28.14	Deficient
Olin Mathieson Chemical Corporation			
Mathieson Heptachlor 2 E Emulsifiable			
Heptachlor (Technical)	32.50	30.25	Deficient
Mathieson Heptachlor 2 lb. Emulsifiable Concentrate			
Heptachlor (Technical)	33.10	29.63	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 5% Heptachlor Dust			
Heptachlor (Technical)	5.97	6.26	Passed
Swift and Company			
Gold Bear Brand Heptachlor A-2-E			
Heptachlor (Technical)	30.90	22.31	Deficient
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Heptachlor Transplanter Solution			
Heptachlor (Technical)	32.30	32.47	Passed
do	32.30	32.54	Passed
do	32.30	33.23	Passed
HEPTACHLOR - DDT			
Daly-Herring Company			
Dee Aitch Heptachlor Dust			
Heptachlor	2.50		Passed
Related compounds	0.97		
DDT	5.00		
Theoretical chlorine	4.81	4.57	
Farmers Cooperative Exchange, Inc.			
FCX 2½%-5-0 Heptachlor-DDT Dust			
Heptachlor	2.50		Passed
Related compounds	0.97		
DDT	5.00		
Theoretical chlorine	4.81	4.77	
Molony Fertilizer Company			
Heptachlor Cotton Dust 2½-5-0			
Heptachlor	2.50		Passed
Related compounds	0.97		
DDT	5.00		
Theoretical chlorine	4.81	4.93	
Olin Mathieson Chemical Corporation			
Mathieson Heptachlor 2.5%-DDT 5% Dust			
Heptachlor	2.50		Passed
Related compounds	0.97		
DDT	5.00		
Theoretical chlorine	4.81	5.01	
MALATHION			
Allied Drug Products Company			
Fly Bait (Contains 3% Malathion)			
Malathion	3.00	3.17	Passed
do	3.00	3.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Amsco Chemical Company			
Hot Shot Fly Bait			
Malathion	2.00	2.37	Passed
do	2.00	2.58	Passed
do	2.00	2.83	Passed
do	2.00	2.68	Passed
Anchor Serium Company			
Anchor Fly-Bait			
Malathion	2.00	3.37	Not Registered
California Spray-Chemical Corporation			
Ortho Malathion 5 Dust			
Malathion	5.00	3.98	Deficient
Ortho Malathion 50 Spray			
Malathion	50.00	51.54	Passed
do	50.00	53.22	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 4% Malathion Dust			
Malathion	4.00	3.95	Passed
Carter Insecticide and Chemical Company			
Carolina 4% Malathion Dust			
Malathion	4.00	3.90	Passed
Chapman Chemical Company			
Chapman Malatol-55			
Malathion	55.00	57.75	Passed
Cole Stores			
Cole Kill 4% Malathion Dust			
Malathion	4.00	3.80	Passed
Daly-Herring Company			
Dee Aitch Malathion Dust			
Malathion	4.00	4.20	Passed
do	4.00	4.12	Passed
do	4.00	4.12	Passed
Davison Chemical Company			
Naco 4% Malathion Dust			
Malathion	4.00	4.25	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Eagle Products Company, Inc.			
Flipo Fly Bait			
Malathion	2.00	1.34	Deficient Not Registered
do	2.00	2.44	Not Registered
Farmers Cooperative Exchange, Inc.			
FCX 4% Malathion Dust			
Malathion	4.00	4.12	Passed
do	4.00	3.99	Passed
do	4.00	3.83	Passed
FCX 5% Malathion Dust			
Malathion	5.00	4.80	Passed
do	5.00	5.16	Passed
do	5.00	5.16	Passed
do	5.00	5.08	Passed
Florida Agricultural Supply Company			
Fasco Fly Flakes			
Malathion	1.00	2.25	Passed
do	1.00	1.80	Passed
Ideal Malathion Spray			
Malathion	25.00	25.53	Passed
do	25.00	26.79	Passed
Farm Service Company (Now: Quality Chemical Company)			
Malathion Emulsible Concentrate			
Malathion	55.00	62.77	Passed
Mathieson Chemical Corporation (Now: Olin Mathieson Chemical Corp.)			
4% Malathion Dust			
Malathion	4.00	3.72	Deficient
do	4.00	4.41	Passed
do	4.00	3.95	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 4% Malathion Dust			
Malathion	4.00	3.73	Deficient
do	4.00	4.18	Passed
Mike, Inc.			
101 Brand Malathion Dust			
Malathion	3.00	3.27	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corporation			
Malathion 4% Dust			
Malathion	4.00	3.83	Passed
W. R. Peele Company, Inc.			
Pelco 4% Malathion Dust			
Malathion	4.00	3.52	Deficient
B. G. Pratt Company			
Pratt's 50% Malathion Spray			
Malathion	50.00	52.08	Passed
Ralston Purina Company			
Purina Fly Bait (Dry Killer)			
Malathion	2.00	2.32	Passed
Purina Malathion Spray			
Malathion	57.00	60.99	Passed
Rigo Manufacturing Company			
Kill-Ko Fly Bait			
Malathion	2.00	2.71	Passed
do	2.00	1.90	Passed
do	2.00	1.96	Passed
Kill-Ko Flea and Insect Killer (Contains Malathion)			
Malathion	4.00	4.54	Passed
do	4.00	3.92	Passed
do	4.00	3.55	Deficient
do	4.00	4.21	Passed
do	4.00	4.21	Passed
Kill-Ko Malathion 5% Dust			
Malathion	5.00	5.30	Passed
do	5.00	5.37	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4% Malathion Dust			
Malathion	4.00	4.07	Passed
Swift and Company			
Gold Bear Brand 4% Malathion Dust			
Malathion	4.00	4.39	Passed
End-O-Pest Malathion Garden Spray			
Malathion	50.00	55.97	Passed
do	50.00	50.06	Passed
do	50.00	53.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 4% Malathion Dust			
Malathion	4.00	3.11	Deficient
do	4.00	3.14	Deficient
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Fly Flakes			
Malathion	1.00	2.17	Passed
Unico Malathion Spray Powder			
Malathion	25.00	29.07	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Flea Killer			
Malathion	4.00	5.58	Passed
Security Brand 5% Malathion Dust			
Malathion	5.00	5.81	Passed
do	5.00	5.96	Passed
do	5.00	6.10	Passed
do	5.00	5.01	Passed
MALATHION - BHC			
Ralston Purina Company			
Purina Poultry Insecticide (Roost Paint)			
Malathion	2.80	2.87	Passed
Gamma isomer of BHC	1.45	1.61	
MALATHION - DDVP			
California Spray-Chemical Corporation			
Ortho Fly Killer Dry Bait (Contains Malathion)			
Malathion	2.00		Passed
O-O-dimethyl-2-2-dichlorovinyl phosphate	0.05		
Theoretical phosphorous	0.18	0.33	
MALATHION - ORGANIC THIOCYANATES - PYRETHRINS - TERPENE POLYCHLORINATES			
California Spray-Chemical Corporation			
Ortho Household Insect Bomb			
Malathion	1.000	1.000	Passed
Pyrethrins	0.025	0.050	
Terpene polychlorinates	1.000	1.240	
Thanite	1.000	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
MALATHION - SULFUR			
Davison Chemical Company			
Naco 4% Malathion and 25% Sulfur Dust			
Malathion	4.00	4.30	Passed
Sulfur	25.00	27.43	
Naco 4% Malathion and 50% Sulfur Dust			
Malathion	4.00	4.07	Passed
Sulfur	50.00	54.73	
Mike, Inc.			
101 Brand Malathion Dust with Sulfur			
Malathion	4.00	3.95	Passed
Sulfur	18.00	21.96	
Malathion	4.00	4.59	Passed
Sulfur	18.00	17.66	
Malathion	4.00	4.07	Passed
Sulfur	18.00	17.91	
Malathion	4.00	4.01	Passed
Sulfur	18.00	19.38	
Southern Agricultural Chemicals, Inc.			
Royal 4% Malathion Dust (with Sulfur)			
Malathion	4.00	4.24	Passed
Sulfur	18.00	18.75	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4% Malathion Dust with Sulfur			
Malathion	4.00	4.07	Passed
Sulfur	25.00	26.60	
Malathion	4.00	4.53	Passed
Sulfur	25.00	27.02	
Malathion	4.00	4.50	Passed
Sulfur	25.00	27.12	
Malathion	4.00	3.97	Passed
Sulfur	25.00	27.18	
MANEB			
Farmers Cooperative Exchange, Inc.			
FCX 1.4% Maneb Dust			
Manganese ethylene bisdithio- carbamate	1.40	1.49	Passed
Graham Chemical Company			
Red Star 2% "Dithane" M-22 Dust			
Manganese ethylene bisdithio- carbamate	1.40	1.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust			
Manganese ethylene bisdithio- carbamate	5.60	6.11	Passed
METHOXYCHLOR			
E. I. du Pont de Nemours and Company			
Du Pont 50% Technical Methoxychlor Insecticide			
Methoxychlor	50.00	48.57	Passed
Farmers Cooperative Exchange, Inc.			
FCX 50% Methoxychlor Wettable Spray Powder			
Methoxychlor	50.00	47.50	Passed
do	50.00	47.14	Deficient
METHOXYCHLOR - ALLETHRIN - DDT - PIPERONYL BUTOXIDE			
Boyle-Midway, Inc.			
Black Flag Push Button Insect Bomb			
Methoxychlor	1.00		Passed
Allethrin	0.22	Present	
DDT	1.00		
Piperonyl butoxide	0.25	0.12	
Theoretical chlorine	0.80	0.86	
Methoxychlor	1.00		Passed
Allethrin	0.22	Present	
DDT	1.00		
Piperonyl butoxide	0.25	0.14	
Theoretical chlorine	0.80	0.82	
METHOXYCHLOR - ALLETHRIN - DDT - ORGANIC THIOCYANATES			
U. S. Packaging Corporation			
Super Aerosol Push Button Spray Bug Killer			
Methoxychlor	1.00		Passed
Allethrin	0.10	Present	
DDT	3.00		
Thanite	1.00	Present	
Theoretical chlorine	1.80	1.80	
METHOXYCHLOR - BHC			
E. I. du Pont de Nemours and Company			
Du Pont Dairy Barn Insecticides			
Methoxychlor	50.00		Deficient
Gamma isomer of BHC	3.00		
Theoretical chlorine	17.39	15.25	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ralston Purina Company			
Purina Building Spray			
Methoxychlor	30.00		Passed
Gamma isomer of BHC	4.00		
Theoretical chlorine	12.05	12.15	
METHOXYCHLOR - BHC - FERBAM - ZIRAM			
California Spray-Chemical Corporation			
Botano DeLuxe			
Methoxychlor	5.00		Deficient
Gamma isomer of BHC	1.00		
Ferric dimethyl dithiocarbamate	3.00	2.47	
Zinc dimethyl dithiocarbamate	3.00	4.88	
Theoretical chlorine	2.25	2.32	
METHOXYCHLOR - BHC - SULFUR			
Ralston Purina Company			
Purina Insect Killer			
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.73	
Theoretical chlorine	1.14	1.53	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	12.88	
Theoretical chlorine	1.14	1.20	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	10.79	
Theoretical chlorine	1.14	1.30	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.62	
Theoretical chlorine	1.14	1.27	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.54	
Theoretical chlorine	1.14	1.37	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.10	
Theoretical chlorine	1.14	1.43	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	11.93	
Theoretical chlorine	1.14	1.20	
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	9.62	
Theoretical chlorine	1.14	1.16	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Insect Killer (Continued)			
Methoxychlor	2.50		Passed
Gamma isomer of BHC	0.50		
Sulfur	10.00	14.77	
Theoretical chlorine	1.14	1.18	

METHOXYCHLOR - CAPTAN - MALATHION**Acme Quality Paints, Inc.****Acme Fruit Tree Spray**

Methoxychlor	12.00		Passed
Captan	12.00		
Malathion	6.00	6.20	
Theoretical chlorine	7.90	8.50	

American Chemical and Paint Company**ACP Garden Doctor Spray**

Methoxychlor	15.00		Passed
Captan	10.00		
Malathion	5.00	5.45	
Theoretical chlorine	8.10	8.16	

California Spray-Chemical Corporation**Ortho Dog Powder**

Methoxychlor	2.00		Deficient
Captan	5.00		
Malathion	2.00	1.74	
Theoretical chlorine	2.39	2.42	

METHOXYCHLOR - CAPTAN - ROTENONE**California Spray-Chemical Corporation****Ortho Tomato and Vegetable Dust**

Methoxychlor	5.00		Passed
Captan	5.00		
Rotenone	0.75	Present	
Theoretical chlorine	3.29	3.37	

METHOXYCHLOR - COPPER**E. I. du Pont de Nemours and Company****Du Pont Tomato Dust (Insecticide
and Fungicide)**

Methoxychlor	5.00	4.79	Passed
Copper as metallic	6.75	7.04	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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**METHOXYCHLOR - DICHLOROPHENE
HEXACHLOROPHENE - MALATHION**

Pet Chemicals, Inc.

Flea-Mit for Dogs and Cats

Methoxychlor	Not Given		Misbranded
Dichlorophene	Not Given		
Hexachlorophene	Not Given		
Malathion	Not Given	1.21	
Theoretical chlorine	Not Given	0.94	

Holiday Flea Stop

Methoxychlor	Not Given		Misbranded
Dichlorophene	Not Given		
Hexachlorophene	Not Given		
Malathion	Not Given	2.37	
Theoretical chlorine	Not Given	1.58	

Methoxychlor	Not Given		Misbranded
Dichlorophene	Not Given		
Hexachlorophene	Not Given		
Malathion	Not Given	2.98	
Theoretical chlorine	Not Given	1.13	

Methoxychlor	Not Given		Misbranded
Dichlorophene	Not Given		
Hexachlorophene	Not Given		
Malathion	Not Given	1.98	
Theoretical chlorine	Not Given	0.83	

METHOXYCHLOR - MALATHION

Farmers Cooperative Exchange, Inc.

FCX Bean Dust

Methoxychlor	3.00	3.12	Passed
Malathion	3.00	3.34	
Methoxychlor	3.00	3.30	Passed
Malathion	3.00	3.19	
Methoxychlor	3.00	2.85	Passed
Malathion	3.00	3.00	
Methoxychlor	3.00	3.22	Deficient
Malathion	3.00	2.62	

United Cooperatives, Inc.

(Now: Farmers Cooperative Exchange, Inc.)

Unico Estate Insecticide

Methoxychlor	16.00	17.85	Passed
Malathion	16.00	15.59	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR - ORGANIC THIOCYANATES- PIPERONYL BUTOXIDE - PYRETHRINS			
Diamond Black Leaf Company A Unit of Diamond Alkali Company			
Black Leaf Household Dairy Fly Spray			
Methoxychlor	0.500	0.780	Passed
Piperonyl butoxide	0.100	0.082	
Pyrethrins	0.012	0.020	
Thanite	1.405	1.68	
California Spray-Chemical Corporation			
Ortho Fly Spray for Household and Dairy Use			
Methoxychlor	0.50	0.55	Passed
Piperonyl butoxide	0.50	0.42	
Pyrethrins	0.05	0.059	
Thanite	0.25	Present	
Methoxychlor	0.50	0.53	Passed
Piperonyl butoxide	0.50	0.485	
Pyrethrins	0.05	0.13	
Thanite	0.25	Present	
Methoxychlor	0.50	0.56	Passed
Piperonyl butoxide	0.50	0.47	
Pyrethrins	0.05	0.052	
Thanite	0.25	Present	
METHOXYCHLOR - PIPERONYL BUTOXIDE - PYRETHRINS			
Colgate Palmolive Company			
Colgate New Kan-Kill Aerosol Bug Killer for House and Garden			
Methoxychlor	2.00	1.67	Deficient
Piperonyl butoxide	1.00	0.84	
Pyrethrins	0.20	0.21	
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Stock Fly Spray			
Methoxychlor	0.25	0.28	Passed
Piperonyl butoxide	0.25	0.28	
Pyrethrins	0.03	0.06	
METHOXYCHLOR - PYRETHRINS			
Cook Chemical Company			
Real-Kill Fly and Mosquito Killer			
Methoxychlor	0.50	0.44	Passed
Piperonyl butoxide	0.05	0.09	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR - ROTENONE			
Pratt Food Company (Now: Pratt Laboratories, Inc.)			
Pratts Lice Killer			
Methoxychlor	0.50	0.66	Passed
Rotenone	1.00	0.83	
METHOXYCHLOR - ROTENONE - ZINEB			
Anchor Serium Company			
Anchor Garden Dust			
Methoxychlor	5.00	4.82	Deficient
Rotenone	0.75	0.48	Not
Zinc dimethyl dithiocarbamate	3.90	4.02	Registered
MH - 30			
Allied Chemical and Dye Corporation General Chemical Division			
MH-30 Tobacco Sucker Inhibitors			
Diethanolamine salt of maleic hydrazide	58.00	61.23	Passed
Diamond Black Leaf Products A Unit of Diamond Alkali Company			
Black Leaf MH-30			
Diethanolamine salt of maleic hydrazide	58.00	62.06	Passed
Niagara Chemical Division Food Machinery & Chemical Corporation			
Niagara MH-30 Liquid Maleic Hydrazide			
Diethanolamine salt of maleic hydrazide	58.00	59.99	Passed
W. R. Peele Company, Inc.			
Pelco MH-30 Plant Growth Inhibitor & Herbicide			
Diethanolamine salt of maleic hydrazide	58.00	59.66	Passed
do	58.00	58.93	Passed
Quality Chemical Company			
MH-30 Plant Growth Inhibitor and Herbicide			
Diethanolamine salt of maleic hydrazide	58.00	58.02	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
NEMAGON			
W. R. Peele Company, Inc.			
Pelco 30% Nemagon Granules			
1, 2 Dibromo-3-chloropropane	30.00	28.54	Passed
do	30.00	26.85	Deficient
PARADICHLOROBENZENE			
Judson Dunaway Corporation			
Expello X-Ray Vapor			
Paradichlorobenzene	99.97	97.66	Passed
Koppers Company, Inc.			
Paradichlorobenzene Crystals			
Paradichlorobenzene	100.00	96.60	Passed
B. G. Pratt Company			
Para-Scalacide			
Paradichlorobenzene	12.60	12.72	Passed
PARATHION			
California Spray-Chemical Corporation			
Vapophos 1 Dust			
Parathion	1.00	0.85	Deficient
do	1.00	1.33	Passed
Ortho Parathion 15 Wettable			
Parathion	15.00	16.92	Passed
do	15.00	14.96	Passed
do	15.00	14.26	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 1% Parathion			
Parathion	1.00	1.02	Passed
do	1.00	1.20	Passed
Niagara Chemical Division Food Machinery and Chemical Corporation			
Niagara Phos Kill Spray			
Parathion	15.00	17.58	Passed
Olin Mathieson Chemical Corporation			
Mathieson Parathion 1% Dust			
Parathion	1.00	1.10	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson Parathion 2% Dust			
Parathion	2.00	1.91	Passed
W. R. Peele Company, Inc.			
Pelco 1% Parathion Dust			
Parathion	1.00	1.14	Passed
do	1.00	1.20	Passed
Planters Chemical Corporation			
Planters 2% Parathion Dust			
Parathion	2.00	1.96	Passed
Quality Chemical Corporation			
1% Parathion Dust			
Parathion	1.00	1.23	Passed
do	1.00	1.02	Passed
Smith Seed and Feed Company			
1% Parathion Dust			Misbranded Not Registered
Parathion	1.00	1.10	
Southern Agricultural Chemicals, Inc.			
Royal Brand 1% Parathion			
Parathion	1.00	1.02	Passed
Swift and Company			
Gold Bear Brand Insecticide Dust Y 1.5			
Parathion	1.50	1.66	Passed
Gold Bear Brand Insecticide Y 2			
Parathion	2.00	2.17	Passed
Taylor Chemical Company			
Superkill 1% Parathion Dust			
Parathion	1.00	0.97	Passed
PARATHION - FERBAM			
Farmers Cooperative Exchange, Inc.			
FCX 11.4 Ferbam 1% Parathion			
Parathion	1.00	0.99	Passed
Ferric dimethyl dithiocarbamate	11.40	12.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PARATHION - MANEB			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust (with 1% Parathion)			
Parathion	1.00	1.03	Passed
Manganese ethylene bisdithiocarbamate	5.60	5.76	
PARATHION - SULFUR			
California Spray-Chemical Corporation			
Ortho Parathion-Sulfur 3.75-70 Wettable			
Parathion	3.75	4.44	Passed
Sulfur	70.00	67.80	
Parathion	3.75	3.67	Passed
Sulfur	70.00	78.00	
Parathion	3.75	4.61	Passed
Sulfur	70.00	70.90	
Southern Agricultural Chemicals, Inc.			
Royal Brand Peach Dust			
Parathion	1.50	1.69	Passed
Sulfur	80.00	78.15	
Taylor Chemical Company			
Superkill Peach Dust			
Parathion	1.50	1.76	Passed
Sulfur	80.00	82.75	
Superkill Peach Spray No. 2			
Parathion	3.70	4.61	Passed
Sulfur	75.00	77.65	
PARATHION - SULFUR - ZINC			
Taylor Chemical Company			
Superkill Peach Spray No. 6			
Parathion	2.73	2.84	Passed
Sulfur	54.50	54.46	
Zinc as metallic	14.54	14.42	
PERTHANE - PIPERONYL BUTOXIDE - PYRETHRINS			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Household Aerosol			
Perthane	3.00	3.02	Passed
Piperonyl butoxide	0.60	0.37	
Pyrethrins	0.24	0.55	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Household Aerosol (Continued)			
Perthane	3.00	2.94	Passed
Piperonyl butoxide	0.60	0.57	
Pyrethrins	0.24	0.23	
PHENOLS - BHC - MALATHION NEUTRAL OILS			
Carbola Chemical Company, Inc.			
Carbola, The Disinfecting White Paint			
Phenols	1.60	1.73	Passed
Gamma isomer of BHC	0.22	0.23	
Malathion	0.66	0.66	
Neutral oils	1.40	3.26	
Phenols	1.60	1.94	Passed
Gamma isomer of BHC	0.22	0.36	
Malathion	0.66	0.85	
Neutral oils	1.40	3.16	
Phenols	1.60	2.37	Passed
Gamma isomer of BHC	0.22	0.23	
Malathion	0.66	0.93	
Neutral oils	1.40	4.15	
Phenols	1.60	2.03	Passed
Gamma isomer of BHC	0.22	0.21	
Malathion	0.66	0.93	
Neutral oils	1.40	2.80	
Phenols	1.60	2.50	Passed
Gamma isomer of BHC	0.22	0.19	
Malathion	0.66	0.65	
Neutral oils	1.40	1.67	
Phenols	1.60	1.67	Deficient
Gamma isomer of BHC	0.22	0.19	
Malathion	0.66	0.38	
Neutral oils	1.40	2.79	
Phenols	1.60	1.64	Deficient
Gamma isomer of BHC	0.22	0.19	
Malathion	0.66	0.26	
Neutral oils	1.40	2.50	
Phenols	1.60	2.12	Passed
Gamma isomer of BHC	0.22	0.25	
Malathion	0.66	0.95	
Neutral oils	1.40	2.86	
Phenols	1.60	2.45	Passed
Gamma isomer of BHC	0.22	0.27	
Malathion	0.66	0.48	
Neutral oils	1.40	1.93	
Phenols	1.60	2.45	Passed
Gamma isomer of BHC	0.22	0.22	
Malathion	0.66	0.78	
Neutral oils	1.40	1.73	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carbola, The Disinfecting White Paint (Continued)			
Phenols	1.60	1.63	Passed
Gamma isomer of BHC	0.22	0.20	
Malathion	0.66	0.63	
Neutral oils	1.40	2.36	
Phenols	1.60	1.74	Passed
Gamma isomer of BHC	0.22	0.21	
Malathion	0.66	0.63	
Neutral oils	1.40	3.00	
Phenols	1.60	2.20	Passed
Gamma isomer of BHC	0.22	0.30	
Malathion	0.66	0.82	
Neutral oils	1.40	3.32	
Phenols	1.60	1.74	Passed
Gamma isomer of BHC	0.22	0.24	
Malathion	0.66	0.69	
Neutral oils	1.40	2.87	
PHENOLS - BHC - NEUTRAL OILS			
Carbola Chemical Company, Inc.			
Carbola, The Disinfecting White Paint			
Phenols	1.60	0.68	Deficient
Gamma isomer of BHC	0.335	0.323	
Neutral oils	1.40	1.63	
PHENOLS - NEUTRAL OILS			
Boyle-Midway, Inc.			
Salem Creol Disinfectant			
Phenols	11.00	12.38	Passed
Neutral oils	62.00	63.21	
PHOSDRIN			
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 2% Phosdrin Insecticide Dust			
Phosdrin	2.00	2.12	Passed
do	2.00	1.48	Deficient
do	2.00	1.52	Deficient
PHOSPHORUS			
Robert M. Kerr			
Rat Nip			
Phosphorus	1.10	4.00	Not Registered
John Opitz, Inc.			
J-O Paste, Kills Roaches and Rats			
Phosphorus	1.38	3.34	Passed
do	1.38	3.07	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PINE OIL			
Blue Magic Company			
Easy Monday Pine Oil Disinfectant			
Pine oil	80.00	79.13	Passed
do	80.00	79.95	Passed
Brondow, Inc.			
Breath O'Pine Cleanser-Disinfectant			
Pine oil	Not Given	84.24	Misbranded
The Dill Company			
Dil-Fectol			
Pine oil	80.00	82.10	Passed
PIVAL			
Ralston Purina Company			
Purina Rat Control (Cereal Base)			
2 pivalyl-1, 3 indandione	0.025	0.030	Passed
do	0.025	0.044	Passed
do	0.025	0.042	Passed
POTASSIUM CYANATE			
American Chemical Paint Company			
"Weedone" Chick Weed Killer			
Potassium cyanate	52.00	45.92	Deficient
Swift and Company			
End-O-Weed for Crab Grass & Chick Weed			
Potassium cyanate	60.00	60.06	Passed
PYRETHRINS			
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Insect Powder			
Pyrethrins	0.50	0.42	Passed
do	0.50	0.48	Passed
do	0.50	0.48	Passed
do	0.50	0.58	Passed
do	0.50	0.53	Passed
McCormick and Company, Inc.			
Bee Brand Insect Powder			
Pyrethrins	0.60	0.84	Passed
do	0.60	0.63	Passed
do	0.60	0.58	Passed
do	0.60	0.70	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Bee Brand Insect Powder			
Pyrethrins	0.75	0.80	Passed
do	0.72	0.72	Passed
do	0.75	1.00	Passed

John Opitz, Inc.

J-O Insect Powder			Not Registered
Pyrethrins	0.30	0.40	

PYRETHRINS - DIELDRIN**Cook Chemical Company****Push Button Real-Kill Bug Killer**

Pyrethrins	0.046	0.050	Passed
Dieldrin	0.50	0.52	
Pyrethrins	0.046	0.079	Passed
Dieldrin	0.50	0.60	
Pyrethrins	0.046	0.06	Passed
Dieldrin	0.50	0.56	

PYRETHRINS - DIELDRIN - PIPERONYL BUTOXIDE**Boyle-Midway, Inc.****Black Flag Roach and Ant Killer**

Pyrethrins	0.04	0.04	Passed
Dieldrin	0.50	0.76	
Piperonyl butoxide	0.10	0.066	

PYRETHRINS - PINE OIL - PIPERONYL BUTOXIDE**Dr. Hess and Clark, Inc.****New Oil Type Hess Spray for Livestock**

Pyrethrins	0.03	0.039	Passed
Pine oil	0.56	Present	
Piperonyl butoxide	0.30	0.26	

PYRETHRINS - PIPERONYL BUTOXIDE**Amsco Chemical Company****Hot Shot Insect Killer**

Pyrethrins	0.10	0.13	Passed
Piperonyl butoxide	0.15	0.13	
Pyrethrins	0.10	0.11	Passed
Piperonyl butoxide	0.15	0.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Chambers-Godfrey Manufacturing Company			
Chambers Anti Skipper Compound			
Pyrethrins	0.10	0.054	Passed
Piperonyl butoxide	1.00	0.71	
The Great Atlantic and Pacific Tea Company			
Bright Sail Insect Killer			
Pyrethrins	0.30	0.33	Passed
Piperonyl butoxide	0.60	0.63	
S. C. Johnson and Son, Inc.			
Raid Insect Spray			
Pyrethrins	0.075	0.100	Passed
Piperonyl butoxide	0.150	0.118	
PYRETHRINS - PIPERONYL BUTOXIDE - TERPENE POLYCHLORINATES			
Colgate-Palmolive Company			
Kan-Kill Colgate's Aerosol Insect and Bug Killer			
Pyrethrins	0.20	0.19	Passed
Piperonyl butoxide	0.50	0.50	
Terpene polychlorinates	2.00	2.13	
Pyrethrins	0.20	0.19	Passed
Piperonyl butoxide	0.50	0.48	
Terpene polychlorinates	2.00	2.84	
Pyrethrins	0.20	0.50	Passed
Piperonyl butoxide	0.50	0.53	
Terpene polychlorinates	2.00	2.05	
ROTENONE			
Acme Quality Paints, Inc.			
Acme .75% Rotenone Dust			
Rotenone	0.75	0.55	Passed
Acme Garden Guard 1% Rotenone			
Rotenone	1.00	0.87	Passed
Black Panther Company, Inc.			
Black Panther Bean Dust			
Rotenone	0.75	0.77	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 1% Rotenone Dust			
Rotenone	1.00	0.99	Passed
do	1.00	1.04	Passed
do	1.00	0.92	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tiger Brand 1% Rotenone Dust (Continued)			
Rotenone	1.00	0.97	Passed
do	1.00	1.08	Passed
do	1.00	0.87	Passed
do	1.00	1.07	Passed
Carbola Chemical Company, Inc.			
CCC Garden Rote			
Rotenone	0.75	0.50	Deficient
Cole Kill 1% Rotenone Dust			
Rotenone	1.00	0.90	Passed
Daly-Herring Company			
Dee Aitch 1.00% Rotenone Dust			
Rotenone	1.00	0.86	Passed
do	1.00	0.80	Passed
do	1.00	0.87	Passed
do	1.00	0.88	Passed
do	1.00	0.84	Passed
do	1.00	0.96	Passed
do	1.00	0.94	Passed
do	1.00	0.89	Passed
Davison Chemical Company			
Naco 1% Rotenone Dust			
Rotenone	1.00	0.72	Deficient
do	1.00	0.71	Deficient
Diamond Black Leaf Products			
A Unit of Diamond Alkali Company			
1% Rotenone Garden Dust			
Rotenone	1.00	1.03	Passed
do	1.00	0.95	Passed
Farmers Cooperative Exchange, Inc.			
FCX Rotox No. "75"			
Rotenone	0.75	0.54	Passed
do	0.75	0.70	Passed
FCX Rotox "100"			
Rotenone	1.00	0.94	Passed
do	1.00	0.88	Passed
do	1.00	0.80	Passed
do	1.00	0.94	Passed
do	1.00	0.80	Passed
do	1.00	0.92	Passed
do	1.00	0.80	Passed
do	1.00	0.97	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX 5% Rotenone Wettable Powder			
Rotenone	5.00	4.60	Passed
Dr. Hess & Clark, Inc			
Dr. Hess Louse Killer			
Rotenone	0.50	0.41	Passed
do	0.50	0.57	Passed
do	0.50	0.54	Passed
Cattle Grub Killer			
Rotenone	1.50	1.56	Passed
do	1.50	1.50	Passed
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Grub Dust			
Rotenone	1.66	1.37	Passed
McCormick and Company, Inc.			
Bee Brand Flea Killer			
Rotenone	1.00	0.80	Passed
Miller Chemical and Fertilizer Corporation			
Miller V-75 Dust			
Rotenone	0.75	0.72	Passed
Miller Dust			
Rotenone	1.00	1.02	Passed
Niagara Chemical Division			
Food Machinery and Chemical Corporation			
Niagara Farm and Garden Brand Rotenone Dust or Spray			
Rotenone	0.75	0.59	Passed
Olin Mathieson Chemical Corporation			
Rotenone 1% Dust			
Rotenone	1.00	0.98	Passed
W. R. Peele Company, Inc.			
Pelco 1% Rotenone Dust			
Rotenone	1.00	0.81	Passed
Quality Chemical Corporation			
Rotenone 1% Dust			
Rotenone	1.00	0.69	Deficient
do	1.00	0.70	Deficient
do	1.00	0.74	Deficient
do	1.00	0.81	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rotenone 1% Dust (Continued)			
Rotenone	1.00	0.84	Passed
do	1.00	0.81	Passed
do	1.00	0.84	Passed
Rigo Manufacturing Company, Inc.			
Gismo Rotenone .75% Bean Beetle Dust			
Rotenone	0.75	0.61	Passed
do	0.75	0.77	Passed
Sears, Roebuck and Company			
Cross-Country Insect Dust			
Rotenone	0.75	0.63	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 1% Rotenone Dust			
Rotenone	1.00	0.72	Deficient
Swift and Company			
1% Rotenone Dust			
Rotenone	1.00	0.88	Passed
do	1.00	0.82	Passed
Tobacco States Chemical Company			
Tobacco States 100 Rotenone Garden Dust			
Rotenone	1.00	1.22	Not Registered
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Four-In-One Rotenone Powder			
Rotenone	1.75	1.52	Passed
Wonder Products Company			
Wonder Flea Powder			
Rotenone	1.00	0.84	Passed
do		1.03	Misbranded
Woolfolk Chemical Works, Ltd.			
Security Mexide 1% Rotenone Dust			
Rotenone	1.00	0.80	Passed
do	1.00	0.92	Passed
do	1.00	0.96	Passed
Security Brand Cattle Grub Dust			
Rotenone	1.50	1.32	Passed
do	1.50	1.37	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE - BHC - CAPTAN - DDT - SULFUR			
Carbola Chemical Company, Inc.			
Carbola Rose Dust or Spray			
Rotenone	0.75	Present	Passed
Gamma isomer of BHC	0.50		
Captan	7.50		
DDT	5.00		
Sulfur	20.00	20.71	
Theoretical chlorine	5.52	5.60	
ROTENONE - COPPER - ORGANIC THIOCYANATES			
Rigo Manufacturing Company			
Kill-Ko 3 in 1 Garden Dust			
Rotenone	0.40	0.21	Deficient
Copper as metallic	4.00	3.86	
Beta thiocyno ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	0.75	Present	
ROTENONE - DDT - FERBAM - SULFUR			
J. M. Harris and Company, Inc.			
Rose Dragon Dust			
Rotenone	1.00	Present	Deficient
DDT	5.00	4.14	
Ferric dimethyl dithiocarbamate	10.50	10.10	
Sulfur	35.00	33.75	
ROTENONE - DDT - FERBAM - SULFUR - ZIRAM			
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Rose and Floral Spray Powder			
Rotenone	1.00	Present	Passed
DDT	5.00	5.00	
Ferric dimethyl dithiocarbamate	3.80	3.83	
Sulfur	30.00	29.16	
Zinc dimethyl dithiocarbamate	3.50	4.38	
Rotenone	1.00	Present	Passed
DDT	5.00	5.00	
Ferric dimethyl dithiocarbamate	3.80	3.83	
Sulfur	30.00	29.18	
Zinc dimethyl dithiocarbamate	3.50	4.82	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE - FLUORINE - ORGANIC THIOCYANATES - SULFUR			
Carbola Chemical Company, Inc.			
CCC Louse Killer			
Rotenone	0.40	0.19	Deficient
Sodium fluorsilicate	10.00	7.76	
Beta thiocynoethyl esters of mixed fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.44	
Rotenone	0.40	0.26	Deficient
Sodium fluorsilicate	10.00	8.91	
Beta thiocynoethyl esters of mixed fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	16.20	
Rotenone	0.40	0.16	Deficient
Sodium fluorsilicate	10.00	8.13	
Beta thiocynoethyl esters of mixed fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.29	
Rotenone	0.40	0.052	Deficient
Sodium fluorsilicate	10.00	8.15	
Beta thiocynoethyl esters of mixed fatty acids—10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	14.78	
ROTENONE - ORGANIC THIOCYANATES - SULFUR			
Black Panther Company, Inc.			
Black Panther Dust			
Rotenone	0.75	0.78	Excessive Active Ingredients
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	18.35	
Rotenone	0.75	0.49	
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	11.02	Deficient
Rotenone	0.75	0.65	Passed
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	10.82	
Rotenone	0.75	0.59	
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	11.67	Passed
Rotenone	0.75	0.58	Passed
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	12.65	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Panther Dust (Continued)			
Rotenone	0.75	0.76	Passed
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	10.80	
Rotenone	0.75	0.77	Passed
Beta beta dithiocyano diethyl ether	0.20	Present	
Sulfur	10.00	10.15	
Parrott Chemical Company			
Lucky Strike Beetle Buster			
Rotenone	0.75	0.62	Not Registered
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	1.00	Present	
Sulfur	15.00	15.61	
Rotenone	0.75	0.54	Not Registered
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	1.00	Present	
Sulfur	15.00	15.79	
Rotenone	0.75	0.65	Not Registered
Beta thiocyano ethyl esters of aliphatic fatty acids—10 to 18 carbon atoms	1.00	Present	
Sulfur	15.00	16.82	
ROTENONE - PIPERONYL CYCLONENE - PYRETHRINS			
Boyle-Midway, Inc.			
Black Flag Flea, Tick and Louse Powder			
Rotenone	0.50	0.52	Passed
Piperonyl cyclonene	1.00	Present	
Pyrethrins	0.10	0.12	
J. Strickland and Company			
El Vampiro Flea Powder			
Rotenone	0.625	Present	Passed
Piperonyl cyclonene	1.250	Present	
Pyrethrins	0.125	0.11	
ROTENONE - PIPERONYL CYCLONENE - PYRETHRINS - SULFUR			
Planters Chemical Corporation			
Planters P.D.Q. Bean and Garden Dust			
Rotenone	0.40	0.36	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.04	
Sulfur	10.00	10.07	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters P.D.Q. Bean and Garden Dust (Continued)			
Rotenone	0.40	0.59	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.04	
Sulfur	10.00	9.70	
Rotenone	0.40	0.31	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.04	
Sulfur	10.00	9.92	
Rotenone	0.40	0.33	Deficient
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.03	
Sulfur	10.00	9.38	
ROTENONE - PYRETHRINS - SULFUR			
Pets Best Company			
Pets Best Insecticide Powder			
Rotenone	1.00	0.88	Not Registered
Pyrethrins	0.10	0.13	
Sulfur	20.00	20.52	
Southern Agricultural Chemicals, Inc.			
Royal Brand Garden Dust			
Rotenone	0.500	0.38	Passed
Pyrethrins	0.035	0.06	
Sulfur	18.000	17.97	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand For Mexican Bean Beetle Control			
Rotenone	0.50	0.51	Passed
Pyrethrins	0.08	0.13	
Sulfur	18.00	18.45	
Rotenone	0.50	0.45	Passed
Pyrethrins	0.08	0.23	
Sulfur	18.00	20.10	
Rotenone	0.50	0.54	Passed
Pyrethrins	0.08	0.08	
Sulfur	18.00	18.66	
SA-100 For Mexican Bean Beetle Control			
Rotenone	1.00	0.75	Deficient
Pyrethrins	0.08	0.09	
Sulfur	18.00	20.16	
Rotenone	1.00	0.90	Passed
Pyrethrins	0.08	0.17	
Sulfur	18.00	18.00	
Rotenone	1.00	0.95	Passed
Pyrethrins	0.08	0.17	
Sulfur	18.00	18.50	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-100 For Mexican Bean Beetle Control (Continued)			
Rotenone	1.00	0.84	Passed
Pyrethrins	0.08	0.10	
Sulfur	18.00	17.98	
Rotenone	1.00	0.81	Passed
Pyrethrins	0.08	0.15	
Sulfur	18.00	19.62	
Rotenone	1.00	0.93	Passed
Pyrethrins	0.08	0.17	
Sulfur	18.00	19.25	
Rotenone	1.00	0.93	Passed
Pyrethrins	0.08	0.22	
Sulfur	18.00	18.82	
Rotenone	1.00	0.83	Passed
Pyrethrins	0.08	0.22	
Sulfur	18.00	18.35	
Rotenone	1.00	0.84	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	19.45	

ROTENONE - PYRETHRINS - SULFUR - ZINEB
Swift and Company
End-O-Pest Garden Dust

Rotenone	1.00	0.95	Passed
Pyrethrins	0.10	0.11	
Sulfur	10.00	11.43	
Zinc ethylene bisdithiocarbamate	3.25	3.18	
Rotenone	1.00	0.79	Passed
Pyrethrins	0.10	0.19	
Sulfur	10.00	10.31	
Zinc ethylene bisdithiocarbamate	3.25	3.21	

ROTENONE - SULFUR
Farmers Cooperative Exchange, Inc.
FCX Rotox "100"

Rotenone	1.00	0.77	Deficient
Sulfur	40.00	41.05	

FCX Cattle Grub and Louse Powder

Rotenone	1.60	1.71	Passed
Sulfur	45.00	45.43	
Rotenone	1.60	1.29	Passed
Sulfur	45.00	47.10	

Graham Chemical Company
Graham Red Star Agricultural Rotenone Dust 1%

Rotenone	1.00	0.70	Deficient
Sulfur	15.00	14.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Red Star Agricultural Rotenone Dust 1% (Continued)			
Rotenone	1.00	1.03	Passed
Sulfur	15.00	17.06	
Rotenone	1.00	1.11	Passed
Sulfur	15.00	15.89	
Rotenone	1.00	1.10	Passed
Sulfur	15.00	16.81	
Rotenone	1.00	0.90	Passed
Sulfur	15.00	16.04	
Rotenone	1.00	0.96	Passed
Sulfur	15.00	16.82	
Rotenone	1.00	1.04	Passed
Sulfur	15.00	17.94	
Rotenone	1.00	1.01	Passed
Sulfur	15.00	16.52	
Rotenone	1.00	0.91	Passed
Sulfur	15.00	16.47	
Rotenone	1.00	0.84	Passed
Sulfur	15.00	16.91	
Rotenone	1.00	0.94	Passed
Sulfur	15.00	15.95	
Rotenone	1.00	0.96	Passed
Sulfur	15.00	15.46	
Rotenone	1.00	1.02	Passed
Sulfur	15.00	15.95	
Rotenone	1.00	0.80	Passed
Sulfur	15.00	16.35	
Rotenone	1.00	0.89	Passed
Sulfur	15.00	16.60	
Rotenone	1.00	1.22	Passed
Sulfur	15.00	16.49	
Rotenone	1.00	0.84	Passed
Sulfur	15.00	16.15	
Rotenone	1.00	0.89	Passed
Sulfur	15.00	16.08	
Rotenone	1.00	0.93	Passed
Sulfur	15.00	16.55	

J. M. Harris and Company, Inc.

Blue Dragon Dust

Rotenone	0.75	0.77	Deficient
Sulfur	10.00	9.45	
Rotenone	0.75	0.81	Passed
Sulfur	10.00	10.27	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Blue Dragon Dust (Continued)			
Rotenone -----	0.75	0.77	Passed
Sulfur -----	10.00	10.19	
Rotenone -----	0.75	0.71	Passed
Sulfur -----	10.00	9.70	
Rotenone -----	0.75	0.59	Passed
Sulfur -----	10.00	10.01	
Rotenone -----	0.75	0.54	Passed
Sulfur -----	10.00	10.10	
Rotenone -----	0.75	0.67	Passed
Sulfur -----	10.00	10.61	
Rotenone -----	0.75	0.71	Passed
Sulfur -----	10.00	10.43	
Rotenone -----	0.75	0.61	Passed
Sulfur -----	10.00	10.40	
Rotenone -----	0.75	0.72	Passed
Sulfur -----	10.00	10.17	
Rotenone -----	0.75	0.88	Passed
Sulfur -----	10.00	10.85	
Rotenone -----	0.75	0.78	Passed
Sulfur -----	10.00	10.68	
Sam Houston Company			
Houston's Rotenone Sulfur Talc			
Rotenone -----	0.75	0.49	Deficient
Sulfur -----	10.00	10.19	
Rotenone -----	0.75	0.54	Passed
Sulfur -----	10.00	10.50	
Rotenone -----	0.75	0.67	Passed
Sulfur -----	10.00	10.37	
Maxwell Insecticide Company, Inc.			
Maxwell 1% Rotenone Dust			
Rotenone -----	1.00	0.95	Passed
Sulfur -----	15.00	15.58	
Rotenone -----	1.00	0.91	Passed
Sulfur -----	15.00	16.55	
Rotenone -----	1.00	0.97	Passed
Sulfur -----	15.00	15.84	
Rotenone -----	1.00	0.99	Passed
Sulfur -----	15.00	16.82	
Rotenone -----	1.00	1.07	Passed
Sulfur -----	15.00	15.65	
Rotenone -----	1.00	0.87	Passed
Sulfur -----	15.00	15.94	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Cattle Grub and Louse Powder			
Rotenone	1.50	1.24	Passed
Sulfur	65.00	68.65	
Rotenone	1.50	1.41	Passed
Sulfur	65.00	68.90	
Rotenone	1.50	1.40	Passed
Sulfur	65.00	63.00	
Rotenone	1.50	1.42	Passed
Sulfur	65.00	62.33	
W. R. Peele Company, Inc.			
Pelco 1% Rotenone Dust			
Rotenone	1.00	0.83	Passed
Sulfur	15.00	14.91	
Rotenone	1.00	0.87	Passed
Sulfur	15.00	15.67	
Rotenone	1.00	0.92	Passed
Sulfur	15.00	14.74	
Rotenone	1.00	0.90	Passed
Sulfur	15.00	16.28	
Rotenone	1.00	0.85	Passed
Sulfur	15.00	14.60	
Rotenone	1.00	0.84	Passed
Sulfur	15.00	15.27	
Rotenone	1.00	0.84	Passed
Sulfur	15.00	15.10	
Rotenone	1.00	0.85	Passed
Sulfur	15.00	14.84	
Rotenone	1.00	1.04	Passed
Sulfur	15.00	14.93	
Rotenone	1.00	0.93	Passed
Sulfur	15.00	17.39	
Rotenone	1.00	0.80	Passed
Sulfur	15.00	15.16	
Ralston Purina Company			
Purina Grub Killer			
Rotenone	1.67	1.28	Passed
Sulfur	50.00	56.17	
Seacoast Laboratories, Inc.			
Twin Light Dustall Rotenone Dust 1%			
Rotenone	1.00	0.99	Passed
Sulfur	3.00	5.17	
Rotenone	1.00	0.93	Passed
Sulfur	3.00	3.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand No. 75 Mexican Bean Beetle Dust			
Rotenone	0.75	0.61	Passed
Sulfur	18.00	21.26	
Job P. Wyatt and Sons Company (Now: Wyatt-Quarles Seed Company)			
Wyatts' 1% Rotenone Dust			
Rotenone	1.00	0.78	Deficient
Sulfur	15.00	15.91	
Wyatt-Quarles Seed Company			
Wyatt's 1% Rotenone Dust			
Rotenone	1.00	0.86	Deficient
Sulfur	15.00	13.90	
Rotenone	1.00	0.99	Passed
Sulfur	15.00	16.13	

SABADILLA**Cape Fear Chemicals, Inc.**

Tiger Brand 20% Sabadilla Seed

Sabadilla alkaloids	0.80	0.97	Passed
do	0.80	0.84	Passed
do	0.80	0.92	Passed
do	0.80	0.87	Passed

Carter Insecticide and Chemical Company

Carter 10% Sabadilla Dust

Sabadilla alkaloids	0.40	0.47	Passed
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Daly-Herring Company

Dee Aitch 20% Sabadilla Dust

Sabadilla alkaloids	0.80	0.76	Passed
do	0.80	0.83	Passed
do	0.80	0.77	Passed
do	0.80	0.83	Passed
do	0.80	0.82	Passed
do	0.80	0.70	Deficient

Farmers Cooperative Exchange, Inc.

FCX Saba-Dil # 10

Sabadilla alkaloids	0.40	0.45	Passed
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FCX Saba-Dill # 20

Sabadilla alkaloids	0.80	0.86	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Company			
Graham's Red Star 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	1.03	Passed
do	0.80	0.99	Passed
do	0.80	1.11	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.89	Passed
do	0.80	0.97	Passed
do	0.80	0.89	Passed
do	0.80	0.86	Passed
do	0.80	0.89	Passed
do	0.80	0.97	Passed
do	0.80	0.83	Passed
do	0.80	0.95	Passed
do	0.80	0.82	Passed
W. R. Peele Company, Inc.			
Pelco 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	1.02	Passed
do	0.80	0.76	Passed
do	0.80	0.90	Passed
Quality Chemical Corporation			
Sabadilla 20% Dust			
Sabadilla alkaloids	0.88	1.03	Passed
do	0.88	1.01	Passed
do	0.88	0.95	Passed
do	0.88	0.92	Passed
do	0.88	0.89	Passed
do	0.88	0.99	Passed
South Atlantic Chemical Company			
SAC Brand Sabadilla Dust			
Sabadilla alkaloids	0.60	0.44	Deficient Not Registered
Woolfolk Chemical Works, Ltd.			
Sabane Dust			
Sabadilla alkaloids	0.80	1.00	Passed
Wyatt-Quarles Seed Company			
Wyatt's 20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.79	Passed
do	0.80	0.91	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SABADILLA - SULFUR			
Southern Agricultural Chemicals, Inc.			
Royal Brand 20% Saba Dust			
Sabadilla alkaloids	0.60	0.88	Deficient
Sulfur	15.00	13.82	
SULFUR			
Sears, Roebuck and Company			
Cross-Country Wettable Dusting Sulfur			
Sulfur	95.00	90.66	Passed
Taylor Chemical Company			
Superkill Flotation Sulfur			
Sulfur	94.00	93.00	Passed
THALLIUM SULFATE			
O. E. Linck Company, Inc.			
Tat Mo-Go			
Thallium sulfate	1.00	1.16	Passed
do	1.00	0.99	Passed
do	1.00	1.09	Passed
do	1.00	1.13	Passed
do	1.00	0.95	Passed
do	1.00	1.40	Passed
do	1.00	1.08	Passed
do	1.00	1.35	Passed
do	1.00	1.28	Passed
Tat Ant Trap			
Thallium sulfate	1.25	1.58	Passed
Master Exterminators			
Rat Stop			
Thallium sulfate	1.00	1.42	Passed
Nott Manufacturing Company, Inc.			
Ant-X Ant Jelly			
Thallium sulfate	1.00	1.00	Passed
TOXAPHENE			
Acme Fertilizer Company			
Acme 20% Toxaphene			
Toxaphene	20.00	20.72	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corporation			
Alltox 20 Dust			
Toxaphene	20.00	19.43	Passed
do	20.00	20.00	Passed
do	20.00	20.00	Passed
do	20.00	20.29	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Toxaphene Dust			
Toxaphene	10.00	10.72	Passed
do	10.00	9.86	Passed
Tiger Brand 20% Toxaphene Cotton Dust			
Toxaphene	20.00	20.86	Passed
do	20.00	19.86	Passed
do	20.00	23.28	Passed
Carolina Chemicals, Inc.			
Flight Brand Toxaphene Dust 20-0			
Toxaphene	20.00	20.00	Passed
Coastal Chemical Corporation			
Toxaphene Emulsion			
Toxaphene	59.00	60.11	Passed
do	60.40	56.41	Deficient
Daly-Herring Company			
Dee Aitch 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.00	Passed
Davison Chemical Company			
Naco 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.72	Passed
do	20.00	19.43	Passed
do	20.00	19.43	Passed
do	20.00	19.14	Passed
Toxaphene Spray			
Toxaphene	60.00	58.38	Passed
Farmers Cooperative Exchange, Inc.			
FCX 20% Toxaphene Dust			
Toxaphene	20.00	19.57	Passed
do	20.00	19.43	Passed
do	20.00	19.86	Passed
do	20.00	19.72	Passed
do	20.00	20.86	Passed
do	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX 20% Toxaphene Dust (Continued)			
Toxaphene	20.00	19.00	Passed
do	20.00	19.00	Passed
do	20.00	19.72	Passed
Howerton Gowen Company, Inc.			
Gowen's 20% Toxaphene Dust without Sulfur			
Toxaphene	20.00	25.99	Passed
Maxwell Insecticide Company, Inc.			
10% Toxaphene Dust			
Toxaphene	10.00	10.00	Passed
20% Toxaphene Dust			
Toxaphene	20.00	19.14	Passed
do	20.00	21.72	Passed
do	20.00	19.29	Passed
do	20.00	19.14	Passed
do	20.00	19.72	Passed
do	20.00	19.29	Passed
do	20.00	20.00	Passed
Toxaphene Emulsion 60			
Toxaphene	60.40	56.39	Deficient
Molony Fertilizer Company			
Lightning Brand 20-0 Toxaphene Cotton Dust			
Toxaphene	20.00	20.29	Passed
Niagara Chemical Division Food Machinery and Chemical Corporation			
Niagara Toxakil 20 Dust			
Toxaphene	20.00	19.43	Passed
do	20.00	20.00	Passed
Olin Mathieson Chemical Corporation			
Mathieson Toxaphene 20 Dust			
Toxaphene	20.00	19.57	Passed
do	20.00	19.57	Passed
do	20.00	19.00	Passed
do	20.00	20.00	Passed
do	20.00	19.29	Passed
do	20.00	20.14	Passed
do	20.00	19.72	Passed
W. R. Peele Company, Inc.			
Pelco 10% Toxaphene			
Toxaphene	10.00	10.29	Passed
do	10.00	10.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco 20% Toxaphene			
Toxaphene	20.00	17.28	Deficient
do	20.00	19.57	Passed
do	20.00	19.57	Passed
do	20.00	19.29	Passed
do	20.00	20.00	Passed
do	20.00	19.57	Passed
do	20.00	20.14	Passed
do	20.00	20.00	Passed
do	20.00	19.00	Passed
do	20.00	19.72	Passed
do	20.00	19.43	Passed
do	20.00	21.43	Passed
do	20.00	19.72	Passed
do	20.00	20.14	Passed
Pelco Toxaphene 60-E.C.			
Toxaphene	57.50	59.54	Passed
Planters Chemical Corporation			
Planters 20% Toxaphene Dust			
Toxaphene	20.00	19.00	Passed
do	20.00	19.72	Passed
do	20.00	19.72	Passed
do	20.00	21.72	Passed
Planters Toxaphene 6 lb. Emulsion Concentrate			
Toxaphene	60.20	60.50	Passed
Quality Chemical Company			
10% Toxaphene Dust			
Toxaphene	10.00	10.00	Passed
Toxaphene Emulsible			
Toxaphene	59.00	58.93	Passed
do	59.00	59.49	Passed
Quality Chemical Corporation			
20% Toxaphene Dust			
Toxaphene	20.00	19.14	Passed
do	20.00	19.14	Passed
do	20.00	20.29	Passed
do	20.00	20.00	Passed
do	20.00	19.14	Passed
Roanoke Chowan Chemical Corporation			
20% Toxaphene Dust			
Toxaphene	20.00	20.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Swift and Company			
Gold Bear Brand Insecticide Dust V2			
Toxaphene	20.00	21.00	Passed
do	20.00	20.29	Passed
Taylor Chemical Company			
Superkill 20% Toxaphene Dust (without Sulfur)			
Toxaphene	20.00	20.00	Passed
do	20.00	19.29	Passed
do	20.00	19.43	Passed
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Toxaphene Emulsifiable Concentrate			
Toxaphene	60.00	59.46	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 20% Toxaphene Dust			
Toxaphene	20.00	20.14	Passed
do	20.00	20.57	Passed
do	20.00	19.72	Passed
TOXAPHENE - DDT - PARATHION			
Farmers Cooperative Exchange, Inc.			
FCX Ten Five One Dust			
Toxaphene	10.00		Passed
DDT	5.00		
Parathion	1.00	1.05	
Theoretical chlorine	9.20	8.93	
TOXAPHENE - PARATHION			
California Spray-Chemical Corporation			
Ortho Parathion Toxaphene 2-10 Dust			
Toxaphene	10.00	9.57	Passed
Parathion	2.00	2.37	
Florida Agricultural Supply Company			
Fasco Terpene-Parathion Dust 10-1½			
Toxaphene	10.00	9.57	Passed
Parathion	1.50	1.92	
Mike, Inc.			
Mike's 101 Pre-Heading Cabbage Dust			
Toxaphene	10.00	9.86	Passed
Parathion	1.50	1.56	
Toxaphene	10.00	9.50	Passed
Parathion	1.50	1.66	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Pre-Heading Cabbage Dust			
Toxaphene	10.00	10.00	Passed
Parathion	1.50	1.94	
Toxaphene	10.00	9.86	Passed
Parathion	1.50	1.71	
Toxaphene	10.00	9.72	Passed
Parathion	1.50	1.76	
Toxaphene	10.00	11.42	Passed
Parathion	1.50	1.82	
Toxaphene	10.00	10.29	Passed
Parathion	1.50	1.53	
Toxaphene	10.00	10.43	Passed
Parathion	1.50	1.92	
Toxaphene	10.00	10.93	Passed
Parathion	1.50	1.94	
Toxaphene	10.00	10.00	Passed
Parathion	1.50	2.13	
Toxaphene	10.00	10.22	Passed
Parathion	1.50	1.89	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.95	
Toxaphene	10.00	9.43	Passed
Parathion	1.50	1.99	
Toxaphene	10.00	12.07	Passed
Parathion	1.50	1.76	
Toxaphene	10.00	10.50	Passed
Parathion	1.50	1.87	
Toxaphene	10.00	10.71	Passed
Parathion	1.50	1.50	
SA-50 Brand Pre-Head Dust 2-20			
Toxaphene	20.00	19.29	Passed
Parathion	2.00	2.27	
Toxaphene	20.00	19.29	Passed
Parathion	2.00	2.69	
Toxaphene	20.00	19.43	Passed
Parathion	2.00	2.34	

WARFARIN**American Scientific Laboratories, Inc.**

ASL Rat and Mouse Killer

Warfarin	0.025	0.038	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Panther Company, Inc.			
Black Panther Rat and Mouse Killer			
Warfarin	0.025	0.040	Passed
Blue Ball Chemical Company			
Blue Ball Dethsure Brand Warfarin			
Warfarin	0.025	0.051	Passed
The d-Con Company, Inc.			
d-Con Mouse Proof			
Warfarin	0.025	0.028	Passed
d-Con Warficide			
Sodium salt of warfarin	0.54	0.56	Passed
Diamond Black Leaf Products			
A Unit of Diamond Alkali Company			
Warf (New Pelleted)			
Warfarin	0.025	0.040	Passed
Eagle Chemical Company			
Flipo M & R Rat and Mouse Bait			
Warfarin	0.025	0.027	Not Registered
Farmers Cooperative Exchange, Inc.			
FCX Warfarin (Ready To Use Pellets)			
Warfarin	0.025	0.033	Passed
Dr. Hess and Clark, Inc.			
Dr. Hess New Warfarat A.P.L.			
Warfarin	0.025	0.030	Passed
Linen White Products Company, Inc.			
Pestex Rat and Mouse Killer			
Warfarin	0.025	0.046	Passed
do	0.025	0.032	Passed
do	0.025	0.024	Passed
The Master Exterminators			
(Now: Master Products Company)			
Rat Buster			
Warfarin	0.025	0.043	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rat Buster Rat and Mouse Pellets			
Warfarin	0.025	0.046	Passed
do	0.025	0.033	Passed
do	0.025	0.033	Passed
Pearson and Company			
Red I Cat—Kills Rats and Mice			
Warfarin	0.50	0.49	Not Registered
Rigo Manufacturing Company, Inc.			
Kill-Ko Mouse Bait			
Warfarin	0.038	0.065	Passed
do	0.038	0.065	Passed
do	0.038	0.046	Passed
ZINEB			
California Spray-Chemical Corporation			
Ortho Zineb 6.5 Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.40	Passed
Ortho Zineb 65 Wettable			
Zinc ethylene bisdithiocarbamate	65.00	66.90	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.38	Passed
Davison Chemical Company			
Naco 6% Dithane Z-78 Dust			
Zinc ethylene bisdithiocarbamate	3.90	4.17	Passed
Naco 10% Dithane Z-78 Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.46	Passed
Farmers Cooperative Exchange, Inc.			
FCX 6.5% Zineb Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.56	Passed
do	6.50	7.02	Passed
W. R. Peele Company, Inc.			
Pelco Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.22	Passed
do	6.50	6.74	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rohm and Haas Company			
Dithane Z-78			
Zinc ethylene bisdithiocarbamate	65.00	62.93	Passed
do	65.00	65.59	Passed
ZINEB - BHC			
Miller Chemical and Fertilizer Corporation			
Miller Cucumber and Melon Dust			
Zinc ethylene bisdithiocarbamate	3.90	4.65	Passed
Gamma isomer of BHC	1.00	1.40	
Swift and Company			
Gold Bear Brand 1% Lindane - 5% Zineb Dust			
Zinc ethylene bisdithiocarbamate	5.00	6.40	Passed
Gamma isomer of BHC	1.00	0.95	
Zinc ethylene bisdithiocarbamate	5.00	5.53	Passed
Gamma isomer of BHC	1.00	0.95	
Zinc ethylene bisdithiocarbamate	5.00	5.78	Passed
Gamma isomer of BHC	1.00	0.95	
ZINEB - DDD			
Pearson and Company			
Pearson's Tomato Dust			
Zinc ethylene bisdithiocarbamate	3.90	4.68	Passed
DDD	3.00	3.30	
ZINEB - DDT			
Farmers Cooperative Exchange, Inc.			
FCX 6.5% Zineb - 5% DDT Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.11	Passed
DDT	5.00	4.75	
MISCELLANEOUS INORGANIC			
Chipman Chemical Company, Inc.			
Atlacide			
Sodium chlorate	58.00	60.64	Passed
E. I. du Pont de Nemours and Company			
Du Pont Ammate Weed and Brush Killer			
Ammonium sulfamate	80.00	91.65	Passed
Smith Chemical Company			
Smith Rodent Destroyer			
Sodium nitrate	46.20	46.84	Not
Sulfur	34.80	37.95	Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
MISCELLANEOUS ORGANIC			
California Spray-Chemical Corporation			
Ortho Crab Grass Killer			
Phenyl mercuric acetate	2.50	2.53	Passed
Diamond Black Leaf Products			
A Unit of Diamond Alkali Company			
New Improved Black Leaf 40 Garden Spray			
Nicotine as alkaloid	40.00	39.81	Passed
Douglas Chemical Company			
Douglas Suffokato #1 Fireproof Grain Fumigant			
Tetrachloromethane	82.80	82.30	Passed
Benzole	12.00	14.54	
Sulfur dioxide	3.00	1.72	
1,2 dibromomethane	1.20	1.44	
E. I. du Pont de Nemours and Company			
Du Pont Semesan			
Hydroxymercurichlorophenol	30.00	29.82	Passed
Du Pont Arasan			
Tetramethylthiuram disulfide	50.00	48.50	Passed
Esso Standard Oil Company			
Flit Moth Proofer			
Terpene polychlorinates	5.00	4.85	Passed
Geigy Agricultural Chemicals			
Geigy Diazinon Fly Killer			
0,0-Diethyl 0-(2-isopropyl -4- methyl- pyrimidyl -6) thiophosphate	1.00	0.95	Passed
Dr. Hess and Clark, Inc.			
Dr. Hess Screw Worm Killer			
Benzol	53.00	55.29	Passed
Diphenylamine	35.00	33.80	
Union Carbide and Carbon Corporation			
Crag Glyodin Solution			
Glyodin	34.00	34.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
United Cooperatives, Inc. (Now: Farmers Cooperative Exchange, Inc.)			
Unico Grain Fumigant			
Ethylene dichloride	70.00	68.22	Passed
Carbon tetrachloride	30.00	31.78	
Unico TCA-90 Grass Killer			
Sodium trichloroacetate	90.00	91.90	Passed

